

## SLOVENSKI STANDARD SIST EN IEC 60721-3-2:2018

01-junij-2018

Nadomešča: SIST EN 60721-3-2:2001

Klasifikacija okoljskih pogojev - 3-2. del: Razvrščanje skupin okoljskih parametrov in njihove resnosti - Transport in ravnanje (IEC 60721-3-2:2018)

Classification of environmental conditions - Part 3-2: Classification of groups of environmental parameters and their severities - Transportation and Handling (IEC 60721 -3-2:2018)

## iTeh STANDARD PREVIEW (standards.iteh.ai)

Classification des conditions d'environnemento-Partie 3 Classification des groupements des agents d'environnement de leurs sévérités de leurs sévé

Ta slovenski standard je istoveten z: EN IEC 60721-3-2:2018

ICS:

19.040 Preskušanje v zvezi z okoljem

Environmental testing

SIST EN IEC 60721-3-2:2018

en

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SIST EN IEC 60721-3-2:2018 https://standards.iteh.ai/catalog/standards/sist/a5114d04-abc6-4982-951b-2838a7bd2c3d/sist-en-iec-60721-3-2-2018

### SIST EN IEC 60721-3-2:2018

## EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

## EN IEC 60721-3-2

April 2018

ICS 19.040

Supersedes EN 60721-3-2:1997

**English Version** 

### Classification of environmental conditions - Part 3-2: Classification of groups of environmental parameters and their severities - Transportation and Handling (IEC 60721-3-2:2018)

Classification des conditions d'environnement - Partie 3-2: Classification des groupements des agents d'environnement et de leurs sévérités - Transport et manutention (IEC 60721-3-2:2018)

Klassifizierung von Umgebungsbedingungen - Teil 3-2: Klassifizierung von Einflussgrößen in Gruppen und deren Schärfegrade - Transport und Handhabung (IEC 60721-3-2:2018)

This European Standard was approved by CENELEC on 2018-03-30. 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 CEN-CENELEC Management Centre or to any CENELEC member. **ICLAPPERSON** 

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2838a7bd2c3d/sist-en-iec-60721-3-2-2018

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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 60721-3-2:2018 (E)

### European foreword

The text of document 104/773/FDIS, future edition 3 of IEC 60721-3-2, prepared by IEC/TC 104 "Environmental conditions, classification, and methods of test" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60721-3-2:2018.

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)	2018-12-30
•	latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2021-03-30

This document supersedes EN 60721-3-2:1997.

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

### **Endorsement notice**

The text of the International Standard IEC 60721-3-2:2018 was approved by CENELEC as a European Standard without any modification. DARD PREVIEW

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60721-2 (series)	NOTE	Harmonized as EN 60721-2 (series).
IEC 60721-2-1		ST Harmonized as EN 60721-2-1.
IEC 60721-2-2 https://star	ndards_teh.ai/c NOTE 2838a7b	atalog/standards/sist/a5114d04-abc6-4982-951b- Harmonized as EN 60721-2-2. dc:30/sist-en-ec-60/21-3-2-2018
IEC 60721-2-3	NOTE	Harmonized as EN 60721-2-3.
IEC 60721-2-9	NOTE	Harmonized as EN 60721-2-9.
IEC 60721-3 (series)	NOTE	Harmonized as EN 60721-3 (series).
IEC 60721-3-0	NOTE	Harmonized as EN 60721-3-0.
IEC 60721-3-1	NOTE	Harmonized as EN 60721-3-1.

## 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: <a href="https://www.cenelec.eu">www.cenelec.eu</a>.

<b>Publication</b>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	Year
IEC 60721-1	-	Classification of environmental conditions - Part 1: Environmental parameters and their severities	- EN 60721-1	-

## iTeh STANDARD PREVIEW (standards.iteh.ai)

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Edition 3.0 2018-02

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



Classification of environmental conditions – PREVIEW Part 3-2: Classification of groups of environmental parameters and their severities – Transportation and handling

### SIST EN IEC 60721-3-2:2018

Classification des conditions d'environnement +104-abc6-4982-951b-Partie 3-2: Classification des groupements des agents d'environnement et de leurs sévérités – Transport et manutention

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

ICS 19.040

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### INTERNATIONAL ELECTROTECHNICAL COMMISSION

### CLASSIFICATION OF ENVIRONMENTAL CONDITIONS -

### Part 3-2: Classification of groups of environmental parameters and their severities – Transportation and handling

### 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 60721-3-2 has been prepared by IEC technical committee 104: Environmental conditions, classification, and methods of test.

This third edition cancels and replaces the second edition, published in 1997, and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Clause 1: reworded and added handling.
- b) Clause 2: updated normative references.
- c) Clause 3: updated definitions.
- d) Clause 4: reworded and simplified.

e) Clause 5: revised and updated. Several classes have been replaced by completely new classes based on the use of new information obtained from referenced Technical Reports.

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- f) Table 1 through Table 5: updated.
- g) Table 6 added.
- h) Old annexes A to C removed except Clause A.3 that is incorporated in Clause 5.
- i) New Annex A.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
104/773/FDIS	104/783/RVD

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

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

A list of all parts in the IEC 60721 series, published under the general title *Classification of environmental conditions*, can be found on the IEC website.

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

- reconfirmed,
- SIST EN IEC 60721-3-2:2018
- withdrawn, https://standards.iteh.ai/catalog/standards/sist/a5114d04-abc6-4982-951b-
- replaced by a revised edition 3877bd2c3d/sist-en-iec-60721-3-2-2018
- amended.

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.

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### CLASSIFICATION OF ENVIRONMENTAL CONDITIONS -

### Part 3-2: Classification of groups of environmental parameters and their severities – Transportation and handling

### **1** Scope and object

This part of IEC 60721 classifies the groups of environmental parameters and their severities to which a product is subjected while being transported and handled.

The most commonly used methods of transportation and handling have been taken into account, including the following:

- road transport: cars, trucks;
- rail transport: trains, trams;
- water transport, inland and maritime: ships;
- air transport: aircraft, jet, propeller, helicopter;
- handling equipment: cranes, transport lifts, cableways, persons;
- conveyors;
- hand trollies.

The environmental conditions specified in this documents are those that the product can be exposed to while transported and handled dif the product is packaged, the environmental conditions apply to the packages containing the product. 212 (the product is unpackaged, the environmental conditions apply to the product.

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Conditions for storage are given in IEC 60721-3-1.

### 2 Normative references

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.

IEC 60721-1, Classification of environmental conditions – Part 1: Environmental parameters and their severities

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60721-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp