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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 60721-3-2:2018 sisaldab Euroopa standardi EN IEC 60721-3-2:2018 ja selle paranduste AC:2018 ja AC:2022 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 60721-3-2:2018 consists of the English text of the European standard EN IEC 60721-3-2:2018 and its corrigendae AC:2018 and AC:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 13.04.2018.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. Date of Availability of the European standard is 13.04.2018.
Parandusega AC:2018 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega AC AC . Parandusega AC:2022 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega AC₂ AC₂ . Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The start and finish of text introduced or altered by corrigendum AC:2018 is indicated in the text by tags AC AC . The start and finish of text introduced or altered by corrigendum AC:2022 is indicated in the text by tags AC₂ AC₂ . The standard is available from the Estonian Centre for Standardisation and Accreditation.

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ICS 19.040

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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)

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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

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

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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	NOTE	Harmonized as EN 60721-2-1.
IEC 60721-2-2	NOTE	Harmonized as EN 60721-2-2.
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.

INTERNATIONAL STANDARD

NORME INTERNATIONALE



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

**Classification des conditions d'environnement –
Partie 3-2: Classification des groupements des agents d'environnement et de
leurs sévérités – Transport et manutention**



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INTERNATIONAL STANDARD

NORME INTERNATIONALE



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

**Classification des conditions d'environnement –
Partie 3-2: Classification des groupements des agents d'environnement et de
leurs sévérités – Transport et manutention**

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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

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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.

- f) Table 1 through Table 5: updated.
- g)  Table 6 deleted .
- 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

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- replaced by a revised edition, or
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The contents of the corrigenda 1 (2018-11) and 2 (2022-06) have been included in this copy.

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 document are those that the product can be exposed to while transported and handled. If the product is packaged, the environmental conditions apply to the package containing the product. If the product is unpackaged, the environmental conditions apply to the product.

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.

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