

Classification of environmental conditions - Part 3-6:  
Classification of groups of environmental parameters  
and their severities - Ship environments

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>See Eesti standard EVS-EN IEC 60721-3-6:2025 sisaldab Euroopa standardi EN IEC 60721-3-6:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 12.09.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN IEC 60721-3-6:2025 consists of the English text of the European standard EN IEC 60721-3-6:2025.</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 12.09.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

Classification of environmental conditions - Part 3-6:  
Classification of groups of environmental parameters and their  
severities - Ship environments  
(IEC 60721-3-6:2025)

Classification des conditions d'environnement - Partie 3-6:  
Classification des groupements des agents  
d'environnement et de leurs sévérités - Environnement des  
navires  
(IEC 60721-3-6:2025)

Klassifizierung von Umgebungsbedingungen - Teil 3-6:  
Klassen von Einflussgrößen und deren Grenzwerte -  
Ausrüstungen auf Schiffen  
(IEC 60721-3-6:2025)

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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 104/1094/FDIS, future edition 2 of IEC 60721-3-6, prepared by TC 104 "Environmental conditions, classification and methods of test" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60721-3-6:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2026-09-30 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2028-09-30 document have to be withdrawn

This document supersedes EN 60721-3-6:1993 and all of its amendments and corrigenda (if any).

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

IEC 60721-2 series	NOTE	Approved as EN 60721-2 series
IEC 60721-3 series	NOTE	Approved as EN IEC 60721-3 series
IEC 60721-3-0	NOTE	Approved as EN IEC 60721-3-0
IEC 60721-3-2	NOTE	Approved as EN IEC 60721-3-2
IEC 60721-3-6:1987	NOTE	Approved as EN 60721-3-6:1993 (not modified)

# INTERNATIONAL STANDARD

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**Classification of environmental conditions -  
Part 3-6: Classification of groups of environmental parameters and their  
severities – Ship environments**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**Classification of environmental conditions -  
Part 3-6: Classification of groups of environmental  
parameters and their severities - Ship environments**

## FOREWORD

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IEC 60721-3-6 has been prepared by IEC technical committee 104: Environmental conditions, classification and methods of test. It is an International Standard.

This second edition cancels and replaces the first edition, published in 1987, and constitutes a technical revision.

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

- a) most classes have been replaced by completely new classes based on the use of new information obtained from referenced Technical Reports;
- b) Table 1 through to Table 5 have been updated;
- c) the content of Annex A and Annex B has either been incorporated into main body text or deleted.

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

Draft	Report on voting
104/1094/FDIS	104/1113/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

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 [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

## 1 Scope

This part of IEC 60721 classifies the groups of environmental parameters and their severities to which a product is subjected when installed aboard a ship.

Ships where electrotechnical products may be permanently or temporarily installed include

- ships propelled by mechanical means, including mobile offshore units, and
- ships not propelled by mechanical means, including sailing boats and life rafts.

The classes defined apply to all sizes of ship from pleasure craft to trawlers, ferry boats, icebreakers, cargo ships including tankers.

The areas in which ships normally navigate are

- inland waterways (canals, rivers, lakes etc.),
- coastal waters, and
- oceans.

Areas where ships navigate in ice are also included.

The environmental conditions specified in this document are those that the product can be exposed to whilst permanently or temporarily installed for the running, handling and safety of the ship. The environmental conditions can also be used for other products, installed in a similar way at similar locations.

Accidental incidents are not included but it can be important to take their occurrence into account for products vital to the safety of the ship. The classification also does not cover the effects of water pressure on submerged products.

Classification of storage and transportation environmental conditions are given in other subparts of the IEC 60721-3 series.

## 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 terminology databases for use in standardization at the following addresses:

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