



**NSAI**  
Standards

Irish Standard  
I.S. EN IEC 60721-3-4:2019

Classification of environmental conditions -  
Part 3-4: Classification of groups of  
environmental parameters and their  
severities - Stationary use at non-  
weatherprotected locations

**I.S. EN IEC 60721-3-4:2019**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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*This document is based on:*

EN IEC 60721-3-4:2019

*Published:*

2019-07-19

*This document was published under the authority of the NSAI and comes into effect on:*

2019-08-19

ICS number:

19.040

NOTE: If blank see CEN/CENELEC cover page

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## National Foreword

I.S. EN IEC 60721-3-4:2019 is the adopted Irish version of the European Document EN IEC 60721-3-4:2019, Classification of environmental conditions - Part 3-4: Classification of groups of environmental parameters and their severities - Stationary use at non-weatherprotected locations

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EUROPEAN STANDARD

**EN IEC 60721-3-4**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2019

ICS 19.040

Supersedes EN 60721-3-4:1995 and all of its  
amendments and corrigenda (if any)

English Version

**Classification of environmental conditions - Part 3-4:  
Classification of groups of environmental parameters and their  
severities - Stationary use at non-weatherprotected locations  
(IEC 60721-3-4:2019)**

Classification des conditions d'environnement - Partie 3-4:  
Classification des groupements des agents  
d'environnement et de leurs sévérités - Utilisation à poste  
fixe, non protégé contre les intempéries  
(IEC 60721-3-4:2019)

Klassifizierung von Umgebungsbedingungen - Teil 3-4:  
Klassen von Einflussgrößen und deren Grenzwerte –  
Ortsfester Einsatz, nicht wettergeschützt  
(IEC 60721-3-4:2019)

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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 60721-3-4:2019 (E)****European foreword**

The text of document 104/828/FDIS, future edition 3 of IEC 60721-3-4, 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 60721-3-4:2019.

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) 2020-03-26
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-06-26

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

IEC 60068-2-27	NOTE	Harmonized as EN 60068-2-27
IEC 60068-3-3	NOTE	Harmonized as EN 60068-3-3
IEC 60721-2 (series)	NOTE	Harmonized as EN 60721-2 (series)
IEC 60721-1	NOTE	Harmonized as EN 60721-1
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 60721-2-4	NOTE	Harmonized as EN IEC 60721-2-4
IEC 60721-2-5	NOTE	Harmonized as HD 478.2.5 S1
IEC 60721-2-6:1990	NOTE	Harmonized as HD 478.2.6 S1:1993 (not modified)
IEC 60721-2-9	NOTE	Harmonized as EN 60721-2-9
IEC 60721-3 (series)	NOTE	Harmonized as EN 60721-3-9 (series)
IEC 60721-3-0	NOTE	Harmonized as EN 60721-3-0
IEC 60721-3-3	NOTE	Harmonized as EN 60721-3-3
ISO 9223	NOTE	Harmonized as EN ISO 9223



**IEC 60721-3-4**

Edition 3.0 2019-05

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Classification of environmental conditions –  
Part 3-4: Classification of groups of environmental parameters and their  
severities – Stationary use at non-weatherprotected locations**

**Classification des conditions d'environnement –  
Partie 3-4: Classification des groupements des agents d'environnement et de  
leurs sévérités – Utilisation à poste fixe, non protégé contre les intempéries**





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**IEC 60721-3-4**

Edition 3.0 2019-05

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Classification of environmental conditions –  
Part 3-4: Classification of groups of environmental parameters and their  
severities – Stationary use at non-weatherprotected locations**

**Classification des conditions d'environnement –  
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leurs sévérités – Utilisation à poste fixe, non protégé contre les intempéries**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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INTERNATIONALE

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ICS 19.040

ISBN 978-2-8322-6956-5

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### CLASSIFICATION OF ENVIRONMENTAL CONDITIONS –

#### **Part 3-4: Classification of groups of environmental parameters and their severities – Stationary use at non-weatherprotected locations**

#### 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 60721-3-4 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 1995 and Amendment 1:1996. This edition constitutes a technical revision.

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

- a) Clause 1: reworded.
- b) Clause 2: normative references have been updated.
- c) Clause 3: definitions have been updated.
- 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) Defined values of chemically active substances are now by reference to ISO 9223.
- g) Tables 1 through 5: updated.

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

FDIS	Report on voting
104/828/FDIS	104/836/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,
- withdrawn,
- replaced by a revised edition, or
- amended.

## CLASSIFICATION OF ENVIRONMENTAL CONDITIONS –

### Part 3-4: Classification of groups of environmental parameters and their severities – Stationary use at non-weatherprotected locations

#### 1 Scope

This part of IEC 60721 classifies groups of environmental parameters and their severities to which products are subjected when installed for stationary use at non-weatherprotected locations. Weatherprotected locations where products can be mounted for stationary use permanently or temporarily are addressed in IEC 60721-3-3.

The environmental conditions specified in this document are limited to those which can directly affect the performance of products. Only environmental conditions as such are considered. No special description of the effects of these conditions on the products is provided.

Environmental conditions directly related to fire or explosion hazards, microclimate within a product, and conditions related to effects from ionizing radiation are excluded. Any other unforeseen incidents are also excluded.

A limited number of classes of environmental conditions is given, covering a broad field of application.

#### 2 Normative references

There are no normative references in this document.

#### 3 Terms and definitions

For the purposes of this document, the following terms and definitions 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>

##### 3.1

##### **stationary use**

use of a product mounted firmly on a structure, or permanently placed at a certain site

##### 3.2

##### **non-weatherprotected location**

location at which a product is not protected from meteorological conditions

##### 3.3

##### **sheltered location**

location at which a product is covered by a structure to protect it from direct meteorological conditions, i.e. direct sunlight, heavy rain

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