



NSAI
Standards

Irish Standard
I.S. EN 60068-2-18:2017

Environmental testing - Part 2-18: Tests – Test R and guidance: Water

I.S. EN 60068-2-18:2017

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National Foreword

I.S. EN 60068-2-18:2017 is the adopted Irish version of the European Document EN 60068-2-18:2017, Environmental testing - Part 2-18: Tests – Test R and guidance: Water

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EUROPEAN STANDARD

EN 60068-2-18

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2017

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Environmental testing -
Part 2-18: Tests - Test R and guidance: Water
(IEC 60068-2-18:2017)

Essais d'environnement -
Partie 2-18: Essais - Essai R et guide: Eau
(IEC 60068-2-18:2017)

Umgebungsprüfungen -
Teil 2-18: Prüfungen, Prüfung R und Leitfaden: Wasser
(IEC 60068-2-18:2017)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 60068-2-18:2017

European foreword

The text of document 104/719/FDIS, future edition 3 of IEC 60068-2-18, 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 60068-2-18:2017.

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) 2018-01-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-04-14

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In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60529 NOTE Harmonized as EN 60529.



IEC 60068-2-18

Edition 3.0 2017-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Environmental testing –
Part 2-18: Tests – Test R and guidance: Water**

**Essais d'environnement –
Partie 2-18: Essais – Essai R et guide: Eau**





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IEC 60068-2-18

Edition 3.0 2017-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Environmental testing –
Part 2-18: Tests – Test R and guidance: Water**

**Essais d'environnement –
Partie 2-18: Essais – Essai R et guide: Eau**

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ENVIRONMENTAL TESTING –

Part 2-18: Tests – Test R and guidance: Water

FOREWORD

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International Standard IEC 60068-2-18 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 2000. This edition constitutes a technical revision.

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

- a) addition of the new test method Rb 3.

The text of this standard is based on the following documents:

FDIS	Report on voting
104/719/FDIS	104/722/RVD

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

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

A list of all parts in the IEC 60068 series, published under the general title *Environmental testing*, can be found on the IEC website.

The committee has decided that the contents of this 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

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INTRODUCTION

A number of water tests are described in other IEC publications. Some of them are well established, for example, the test for classification of the second characteristic numeral of the IP Code, of IEC 60529.

This document incorporates the majority of the most widely used tests, as well as making available further methods and increasing the number of severities.

ENVIRONMENTAL TESTING –

Part 2-18: Tests – Test R and guidance: Water

1 Scope

This part of IEC 60068 provides methods of test applicable to products which, during transportation, storage or in service, can be subjected to falling water drops, impacting water, immersion or high pressure water impact. The primary purpose of water tests is to verify the ability of enclosures, covers and seals to maintain components and equipment in good working order after and, when necessary, under a standardized drop field or immersion in water.

These tests are not corrosion tests and cannot be considered and used as such.

Established water tests in other standards are not intended to simulate natural rainfall and their quoted intensities are too high to be adopted for that purpose. Therefore, in addition to the high-intensity severities, test R includes an artificial rain test based upon natural conditions but not taking into account high wind speeds generally associated with natural rain.

Guidance is given on the applicability of the tests and the severities to be selected.

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 standardisation 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

rain

precipitation in the form of water drops

Note 1 to entry: Both the amount that falls and the actual falling action of the water drops are often called rainfall.

3.2

drizzle

precipitation in the form of very small, numerous and uniformly dispersed water drops that may appear to float while following air currents

3.3

raindrop

drop of water having a diameter greater than 0,5 mm falling through the atmosphere

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