
**Mehanske strukture za električno in elektronsko opremo - Ohišja na prostem - 3.
del: Okoljevarstvene zahteve, preskusi in varnostni vidiki**

Mechanical structures for electrical and electronic equipment - Outdoor enclosures - Part 3: Environmental requirements, tests and safety aspects

Mechanische Bauweisen für elektrische und elektronische Einrichtungen - Außengehäuse - Teil 3: Umgebungsanforderungen, Prüfungen und Sicherheitsaspekte

Structures mécaniques pour équipement électrique et électronique - Enveloppes de plein air - Partie 3: Exigences et essais d'environnement, et aspects liés à la sécurité

Ta slovenski standard je istoveten z: **prEN IEC 61969-3:2026**

ICS:

31.240	Mehanske konstrukcije za elektronsko opremo	Mechanical structures for electronic equipment
--------	---	--

oSIST prEN IEC 61969-3:2026

en

Sample Document

get full document from standards.iteh.ai



48D/803/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER: IEC 61969-3 ED5	
DATE OF CIRCULATION: 2026-03-20	CLOSING DATE FOR VOTING: 2026-06-12
SUPERSEDES DOCUMENTS: 48D/786/CD, 48D/793A/CC	

IEC SC 48D : MECHANICAL STRUCTURES FOR ELECTRICAL AND ELECTRONIC EQUIPMENT	
SECRETARIAT: Germany	SECRETARY: Mr Bernd Komanschek
OF INTEREST TO THE FOLLOWING COMMITTEES: TC 48, SC 48B	HORIZONTAL FUNCTION(S):
ASPECTS CONCERNED: Environment, Safety	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING Attention IEC-CENELEC parallel voting The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Mechanical structures for electrical and electronic equipment - Outdoor enclosures - Part 3: Environmental requirements, tests and safety aspects

PROPOSED STABILITY DATE: 2029

NOTE FROM TC/SC OFFICERS:

Copyright © 2026 International Electrotechnical Commission, IEC. All rights reserved. It is permitted to download this electronic file, to make a copy and to print out the content for the sole purpose of preparing National Committee positions. You may not copy or "mirror" the file or printed version of the document, or any part of it, for any other purpose without permission in writing from IEC.

IEC CDV 61969-3 © IEC 2026

[Link to Committee Draft for Vote \(CDV\) online document:](#)

[Click here](#)

How to access

This link leads you to the Online Standards Development (OSD) platform for National Mirror Committee's (NMC) comments. The project draft may be found further down this document.

Resource materials

We recommend NCs to review the available materials to better understand the member commenting on the OSD platform. This includes the:

- [OSD NC roles overview](#)
- [How to add and submit comments to the IEC](#)

Contact

Should you require any assistance, please contact the [IEC IT Helpdesk](#).

Sample Document

get full document from standards.iteh.ai

CONTENTS

CONTENTS	3
FOREWORD	5
INTRODUCTION	7
1 Scope	8
2 Normative references	8
3 Terms and definitions	9
4 Classification of environmental conditions	10
5 Environmental test conditions	10
5.1 General	10
5.2 Pass/fail criteria tests	11
5.3 Climatic tests	11
5.4 Biological tests	12
5.5 Tests of resistance against chemically active substances	13
5.6 Tests of resistance against mechanically active substances	13
6 Mechanical tests	14
6.1 Operational related mechanical tests	14
6.2 Transport tests	15
6.3 Lifting and stiffness test	15
7 Safety aspects	15
7.1 General	15
7.2 Locking devices	15
7.3 Vandalism resistance	15
7.4 Firearms resistance (optional for outdoor metal enclosures)	16
8 Seismic requirements	16
9 Electromagnetic shielding performance	16
10 Thermal management	16
11 Acoustic noise emission	16
Annex A (normative) Rainstorm degree of protection of outdoor enclosures, WP code, test methods and assessment criteria	17
A.1 General	17
A.2 Designation	17
A.2.1 Arrangement of the WP code	17
A.2.2 Rainstorm degree of protection	18
A.3 General requirements for tests	18
A.3.1 Atmospheric conditions	18
A.3.2 Test specimen	18
A.3.3 Application of test conditions and interpretation of test results	21
A.4 Test facility	22
A.5 Test procedure	24
A.5.1 Test conditions	24
A.5.2 Test procedure	25
A.6 Acceptance conditions	26
Bibliography	27
Figure A.1 – Test specimen dimensions	19

IEC CDV 61969-3 © IEC 2026

Figure A.2 – Test specimen (Horizontal)	20
Figure A.3 – Test specimen (vertical).....	20
Figure A.4 – Example of test specimen installation	21
Figure A.5 – Example of test facility configuration.....	22
Figure A.6 – Example of water spray nozzle and anemometer installation.....	23
Table 1 – Pass/fail criteria tests	11
Table 2 – Climatic conditions for environmental classes 1 and 2	11
Table 3 – Biological tests	12
Table 4 – Tests of resistance against chemically active substances.....	13
Table 5 – Mechanical tests (operational).....	14
Table A.1 – Rainstorm degree of protection	18
Table A.2 – Test conditions	24

Sample Document

get full document from standards.iteh.ai

INTERNATIONAL ELECTROTECHNICAL COMMISSION

—————

**Mechanical structures for electrical and electronic equipment - Outdoor enclosures -
Part 3: Environmental requirements, tests and safety aspects**

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.

2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.

3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.

4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.

5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.

6) All users should ensure that they have the latest edition of this publication.

7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.

8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.

9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document.