

**SLOVENSKI STANDARD
SIST EN IEC 80601-2-89:2026****01-marec-2026****Nadomešča:
SIST EN 50637:2018**

Medicinska električna oprema - 2-89. del: Posebne zahteve za osnovno varnost in bistvene lastnosti medicinskih postelj za otroke (IEC 80601-2-89:2025)

Medical electrical equipment - Part 2-89: Particular requirements for the basic safety and essential performance of medical beds for children (IEC 80601-2-89:2025)

Medizinische elektrische Geräte - Teil 2-89: Besondere Festlegungen für die grundlegende Sicherheit und die wesentlichen Leistungsmerkmale von medizinischen Betten für Kinder (IEC 80601-2-89:2025)

Appareils électromédicaux - Partie 2-89: Exigences particulières pour la sécurité de base et les performances essentielles des lits médicaux pour enfants (IEC 80601-2-89:2025)

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11.140 Oprema bolnišnic Hospital equipment

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 80601-2-89

January 2026

ICS 11.140

Supersedes EN 50637:2017

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**Medical electrical equipment - Part 2-89: Particular requirements
for the basic safety and essential performance of medical beds
for children
(IEC 80601-2-89:2025)**

Appareils électromédicaux - Partie 2-89: Exigences
particulières pour la sécurité de base et les performances
essentielle des lits médicaux pour enfants
(IEC 80601-2-89:2025)

Medizinische elektrische Geräte - Teil 2-89: Besondere
Festlegungen für die grundlegende Sicherheit und die
wesentlichen Leistungsmerkmale von medizinischen Betten
für Kinder
(IEC 80601-2-89:2025)

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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

EN IEC 80601-2-89:2026 (E)**European foreword**

The text of document 62D/2239/FDIS, future edition 1 of IEC 80601-2-89, prepared by SC 62D "Particular medical equipment, software, and systems" of IEC/TC 62 "Medical equipment, software, and systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 80601-2-89:2026.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2027-01-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2029-01-31 document have to be withdrawn

This document supersedes EN 50637:2017 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document is read in conjunction with EN 60601-1:2006 and all of its amendments and corrigenda.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

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Endorsement notice

The text of the International Standard IEC 80601-2-89:2025 was approved by CENELEC as a European Standard without any modification.

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

ISO 20342 (series)	NOTE	Approved as EN ISO 20342 (series)
IEC 61032:1997	NOTE	Approved as EN 61032:1998 (not modified)
IEC 60601-2-19	NOTE	Approved as EN IEC 60601-2-19
IEC 60601-1 (series)	NOTE	Approved as EN 60601-1-9:2008/A2 (series)
ISO 9999:2022	NOTE	Approved as EN ISO 9999:2022 (not modified)
ISO 9614-1	NOTE	Approved as EN ISO 9614-1
ISO 13857:2019	NOTE	Approved as EN ISO 13857:2019 (not modified)
IEC 60601-1-12	NOTE	Approved as EN 60601-1-12
ISO 7010:2019	NOTE	Approved as EN ISO 7010:2020 (not modified)
IEC 60601-1-10	NOTE	Approved as EN 60601-1-10
ISO/IEC Guide 71:2014	NOTE	Approved as CEN/CLC Guide 6:2014 (not modified)
IEC 60068-2-31	NOTE	Approved as EN 60068-2-31

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

Annex ZA of EN 60601-1:2006 and all of its amendments and corrigenda applies, except as follows:

Addition:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	-	-
IEC 60601-1	2005	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	EN 60601-1	2006
-	-		+ corrigendum Mar.	2010
+ A1	2012		+ A1	2013
-	-		+ A12	2014
+ A2	2020		+ A2	2021
-	-		+ A13	2024
ISO 48-5	2018	Rubber, vulcanized or thermoplastic - Determination of hardness – Part 5: Indentation hardness by IRHD pocket meter method	-	-
ISO 3746	-	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane	EN ISO 3746	-
		Safety of toys - Part 3: Migration of certain elements	EN 71-3	-
		Furniture - Assessment of the ignitability of mattresses and upholstered bed bases - Part 1: Ignition source: Smouldering cigarette	EN 597-1	-
		Furniture - Assessment of the ignitability of mattresses and upholstered bed bases -Part 2: Ignition source: Match flame equivalent	EN 597-2	-
		Furniture - Children's cots and folding cots for domestic use - Part 2: Test methods	EN 716-2	-

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IEC 80601-2-89

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INTERNATIONAL STANDARD

**Medical electrical equipment -
Part 2-89: Particular requirements for the basic safety and essential performance
of medical beds for children**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Medical electrical equipment -
Part 2-89: Particular requirements for the basic safety
and essential performance of medical beds for children**

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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IEC 80601-2-89 has been prepared by a Joint Working Group of IEC subcommittee 62D: Particular medical equipment, software, and systems, of IEC technical committee 62: Medical equipment, software, and systems, and ISO technical committee 173: Assistive products. It is an International Standard.

This publication is published as a double logo standard.

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

Draft	Report on voting
62D/2239/FDIS	62D/2272/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table. In ISO, the document was approved by XXX P members out of YYY having cast a vote.

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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

In this standard, the following print types are used:

- requirements and definitions: roman type;
- *test specifications: italic type;*
- informative material appearing outside of tables, such as notes, examples and references: in smaller type. Normative text of tables is also in a smaller type;
- terms defined in clause 3 of IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 AND IEC 60601-1:2005/AMD2:2020, IN THIS DOCUMENT OR AS NOTED: SMALL CAPITALS.

In referring to the structure of this document, the term

- "clause" means one of the seventeen numbered divisions within the table of contents, inclusive of all subdivisions (e.g. Clause 7 includes subclauses 7.1, 7.2, etc.);
- "subclause" means a numbered subdivision of a clause (e.g. 7.1, 7.2 and 7.2.1 are all subclauses of Clause 7).

References to clauses within this document are preceded by the term "Clause" followed by the clause number. References to subclauses within this document are by number only.

In this document, the conjunctive "or" is used as an "inclusive or" so a statement is true if any combination of the conditions is true.

The verbal forms used in this document conform to usage described in Clause 7 of the ISO/IEC Directives, Part 2. For the purposes of this document, the auxiliary verb:

- "shall" means that compliance with a requirement or a test is mandatory for compliance with this document;
- "should" means that compliance with a requirement or a test is recommended but is not mandatory for compliance with this document;
- "may" is used to describe a permissible way to achieve compliance with a requirement or test.

An asterisk (*) as the first character of a title or at the beginning of a paragraph or table title indicates that there is guidance or rationale related to that item in Annex AA.

A list of all parts of the IEC 80601 series, published under the general title *Medical electrical equipment*, can be found on the IEC website.

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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 in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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INTRODUCTION

IEC 80601-2-52[1]¹ applies to the BASIC SAFETY and ESSENTIAL PERFORMANCE of MEDICAL BEDS for ADULTS, hence not covering requirement for beds for CHILDREN and ADULTS with atypical anatomy. This particular standard is based on EN 50637[2], which was created pursuant to Mandate M/467 Medical beds issued by the European Commission with the following background information:

It appears, from a first analysis undertaken by EU Competent Authorities, that the current set of standards is not adapted to the needs of CHILDREN or ADULTS with an atypical anatomy. IEC 80601-2-52 does not foresee a maximum distance for the bars that is small enough to prevent accidents.

According to the EU Competent Authorities' representatives, a part of the safety problem is due to the fact that MEDICAL BEDS for ADULTS are not appropriately labelled as being designed only for ADULTS with a normal anatomy. Users are therefore not always aware of the risk of MEDICAL BEDS for young PATIENTS or for ADULTS with an atypical anatomy. Hospital administrations do not always see a need to buy MEDICAL BEDS which are appropriate for CHILDREN or for ADULTS with an atypical anatomy. Therefore, clear labelling of the targeted PATIENT groups for MEDICAL BEDS complying with IEC 80601-2-52 could reduce the risk of inappropriate use of this kind of MEDICAL BEDS for CHILDREN or for ADULTS with an atypical anatomy.

EU Competent Authorities' representatives also stated that there is a need for the development of requirements for MEDICAL BEDS and COTS for CHILDREN and ADULTS with an atypical anatomy.

In order to prevent IEC 80601-2-52 from being extraordinarily complex to use, TC 62 decided to develop this particular standard rather than further amending IEC 80601-2-52 in relation to use for CHILDREN and ADULTS with an atypical anatomy.

This standard is based on EN 50637 and IEC 80601-2-52 with input from the following standards and reports:

- EN 716-1, *Furniture – V Children's cots and folding cots for domestic use – Part 1: Safety requirements*
- EN 716-2, *Furniture – Children's cots and folding cots for domestic use – Part 2: Test methods*
- EN 1130, *Furniture – Children's furniture – Cribs – Safety requirements and test methods*
- EN 747-1, *Furniture – Bunk beds and high beds – Part 1: Safety, strength and durability requirements*
- EN 747-2, *Furniture – Bunk beds and high beds – Part 2: Test methods*
- CEN/TR 13387 (all parts), *Child use and care articles – General safety guidelines*
- DIN 32623, *Hospital children's cots made from metal and plastic – Safety requirements and testing*
- *Nordic Requirements specification for Adjustable beds for disabled children*

¹ Numbers in square brackets refer to the Bibliography.

201.1 Scope, object and related standards

IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020, Clause 1, applies, except as follows:

201.1.1 * Scope

Replacement:

This International Standard applies to the BASIC SAFETY and ESSENTIAL PERFORMANCE OF MEDICAL BEDS, hereafter referred to as MEDICAL BEDS as defined in 201.3.219, intended for CHILDREN as defined in 201.3.207, and ADULTS with atypical anatomy (ADULTS ranging outside the definition for ADULTS in 201.3.201).

This document applies to both electrical and non-electrical (manual) MEDICAL BEDS with or without adjustable functions. This document applies to MEDICAL BEDS with an INTERNAL LENGTH of up to 180 cm suitable to a body length of 155 cm.

NOTE 1 The limitation of 180 cm is in order to minimize the foreseeable misuse, of a parent sharing the bed with the CHILD or that the bed will be used by an ADULT.

If a MANUFACTURER wishes to make a MEDICAL BED that can be used by both a CHILD and an ADULT, e.g. INTERNAL LENGTH of 180 cm or more, then IEC 80601-2-52 and this document apply.

This document does not apply to:

- ADULT *only* MEDICAL BEDS covered by IEC 80601-2-52;
- SPECIALITY MATTRESS covered by the ISO 20342 series[5];
- incubators covered by IEC 60601-2-19;
- devices for which the INTENDED USE is mainly for examination or transportation under medical supervision (e.g. stretcher, examination table).

If a clause or subclause is specifically intended to be applicable to a MEDICAL BED only, or to ME SYSTEMS only, the title and content of that clause or subclause will say so. If that is not the case, the clause or subclause applies both to MEDICAL BEDS and to ME SYSTEMS, as relevant.

HAZARDS inherent in the intended physiological function of MEDICAL BEDS or ME SYSTEMS within the scope of this document are not covered by specific requirements in this document except in IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020, 7.2.13 and 8.4.1.

NOTE 2 See also IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020, 4.2.

NOTE 3 Whenever the term MEDICAL ELECTRICAL EQUIPMENT (MEE, ME Equipment) is used within the series of IEC 60601 standards, it refers to MEDICAL BEDS, both electrical and non-electrical.

201.1.2 Object

Replacement:

The object of this document is to establish particular BASIC SAFETY and ESSENTIAL PERFORMANCE requirements and test methods for MEDICAL BEDS as defined in 201.3.219 intended for CHILDREN as defined in 201.3.207 and ADULTS with atypical anatomy, i.e. ADULTS ranging outside the definition for ADULTS in 202.3.201.