SLOVENSKI STANDARD
oSIST prEN IEC 61526:2025

01-september-2025

Instrumenti za zaščito pred sevanjem - Merjenje osebnih ekvivalentnih doz za rentgenska (X), gama, nevtronska in beta sevanja - Aktivni osebni dozimetri

Radiation protection instrumentation - Measurement of personal dose equivalents for X, gamma, neutron and beta radiations - Active personal dosemeters

Strahlenschutz-Messgeräte - Messung der Personen-Äquivalentdosen für Röntgen-, Gamma-, Neutronen- und Betastrahlung - Direkt ablesbare Personendosimeter

Instrumentation pour la radioprotection - Mesure des équivalents de dose individuels pour les rayonnements X, gamma, neutron et bêta - Dosimètres individuels actifs

Ta slovenski standard je istoveten z: **prEN IEC 61526:2025**

ICS:

13.280	Varstvo pred sevanjem	Radiation protection
17.240	Merjenje sevanja	Radiation measurements

oSIST prEN IEC 61526:2025 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

DRAFT
prEN IEC 61526

June 2025

ICS 13.280

Will supersede EN 61526:2013

English Version

Radiation protection instrumentation - Measurement of personal dose equivalents for X, gamma, neutron and beta radiations - Active personal dosemeters (IEC 61526:2024)

Instrumentation pour la radioprotection - Mesure des équivalents de dose individuels pour les rayonnements X, gamma, neutron et bêta - Dosimètres individuels actifs (IEC 61526:2024)

Strahlenschutz-Messgeräte - Messung der Personen-Äquivalentdosen für Röntgen-, Gamma-, Neutronen- und Betastrahlung - Direkt ablesbare Personendosimeter (IEC 61526:2024)

This draft European Standard is submitted to CENELEC members for enquiry.
Deadline for CENELEC: 2025-09-12.

The text of this draft consists of the text of IEC 61526:2024.

If this draft becomes a European Standard, CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CENELEC in three official versions (English, French, German).
A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.

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

Project: 81560

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European foreword

This document (prEN IEC 61526:2025) consists of the text of IEC 61526:2024 prepared by IEC/SC 45B “Radiation protection instrumentation” of IEC/TC 45 "Nuclear instrumentation".

This document is currently submitted to the Enquiry.

The following dates are proposed:

•	latest date by which the existence of this document has to be announced at national level	(doa) dav+ 6 months
•	latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop) dav+ 12 months
•	latest date by which the national standards conflicting with this document have to be withdrawn	(dow) dav+ 36 months (to be confirmed or modified when voting)

This document will supersede EN 61526:2013 and all of its amendments and corrigenda (if any).

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.

Publication	Year	Title	EN/HD	Year
IEC 60050-395	2014	International Electrotechnical Vocabulary - Part 395: Nuclear instrumentation: Physical phenomena, basic concepts, instruments, systems, equipment and detectors	-	-
+ A1	2016		-	-
+ A2	2020		-	-
IEC 60068-2-31	2008	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	EN 60068-2-31	2008
IEC 60086-1	2021	Primary batteries - Part 1: General	EN IEC 60086-1	2021
IEC 60086-2	2021	Primary batteries - Part 2: Physical and electrical specifications	EN IEC 60086-2	2021
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529	1991
-	-		+ AC	1993
+ A1	1999		+ A1	2000
+ A2	2013		+ A2	2013
IEC 60904-3	-	Photovoltaic devices - Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data	EN IEC 60904-3	-
IEC 61000-4-2	-	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN IEC 61000-4-2	-
IEC 61000-4-3	-	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN IEC 61000-4-3	-
IEC 61000-4-4	-	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	-

Publication	Year	Title	EN/HD	Year
IEC 61000-4-5	-	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	-
IEC 61000-4-6	-	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	EN IEC 61000-4-6	-
IEC 61000-4-8	-	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	EN 61000-4-8	-
IEC 61000-4-11	-	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	EN IEC 61000-4-11	-
IEC 61000-6-2	-	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments	EN IEC 61000-6-2	-
IEC 61187	1993	Electrical and electronic measuring equipment - Documentation	-	-
IEC 62387	2020	Radiation protection instrumentation - Dosimetry systems with integrating passive detectors for individual, workplace and environmental monitoring of photon and beta radiation	EN IEC 62387	2022
IEC/TR 62461	2015	Radiation protection instrumentation - Determination of uncertainty in measurement	CLC IEC/TR 62461	2019
ISO/IEC Guide 98-3	2008	Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)	-	-
ISO/IEC Guide 98-3:2008/Suppl.1	2008	Propagation of distributions using a Monte Carlo method and Corr.1 (2009)	-	-
ISO 4037-1	2019	Radiological protection - X and gamma reference radiation for calibrating dosemeters and doserate meters and for determining their response as a function of photon energy - Part 1: Radiation characteristics and production methods	EN ISO 4037-1	2021
ISO 4037-2	2019	Radiological protection - X and gamma reference radiation for calibrating dosemeters and doserate meters and for determining their response as a function of photon energy - Part 2: Dosimetry for radiation protection over the energy ranges from 8 keV to 1,3 MeV and 4 MeV to 9 MeV	EN ISO 4037-2	2021

Publication	Year	Title	EN/HD	Year
ISO 4037-3	2019	Radiological protection - X and gamma reference radiation for calibrating dosemeters and doserate meters and for determining their response as a function of photon energy - Part 3: Calibration of area and personal dosemeters and the measurement of their response as a function of energy and angle of incidence	EN ISO 4037-3	2021
ISO 4037-4	2019	Radiological protection - X and gamma reference radiation for calibrating dosemeters and doserate meters and for determining their response as a function of photon energy - Part 4: Calibration of area and personal dosemeters in low energy X reference radiation fields	EN ISO 4037-4	2021
ISO 6980-1	2023	Nuclear energy - Reference beta-particle radiation - Part 1: Methods of production	EN ISO 6980-1	—[1]
ISO 6980-2	2023	Nuclear energy - Reference beta-particle radiation - Part 2: Calibration fundamentals related to basic quantities characterizing the radiation field	EN ISO 6980-2	—[2]
ISO 6980-3	2023	Nuclear energy - Reference beta-particle radiation – Part 3: Calibration of area and personal dosemeters and the determination of their response as a function of beta radiation energy and angle of incidence	EN ISO 6980-3	—[3]
ISO 8529-1	2021	Neutron reference radiations fields - Part 1: Characteristics and methods of production	EN ISO 8529-1	2023
ISO 8529-2	2000	Reference neutron radiations - Part 2: Calibration fundamentals of radiation protection devices related to the basic quantities characterizing the radiation field	-	-
ISO 8529-3	2023	Neutron reference radiation fields - Part 3: Calibration of area and personal dosemeters and determination of their response as a function of neutron energy and angle of incidence	EN ISO 8529-3	2024
ISO 12789-1	-	Reference radiation fields - Simulated workplace neutron fields - Part 1: Characteristics and methods of production	-	-
ISO 12789-2	-	Reference radiation fields - Simulated workplace neutron fields - Part 2: Calibration fundamentals related to the basic quantities	-	-
ISO 21909-1	2021	Passive neutron dosimetry systems - Part 1: Performance and test requirements for personal dosimetry	EN ISO 21909-1	2023

[1] Under preparation. Stage at the time of publication: prEN ISO 6980-1:2025.
[2] Under preparation. Stage at the time of publication: prEN ISO 6980-2:2025.
[3] Under preparation. Stage at the time of publication: prEN ISO 6980-3:2025.