

Irish Standard I.S. EN 60601-1-3:2008

Medical electrical equipment -- Part 1-3: General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment (IEC 60601 -1-3:2008 (EQV))

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I.S. EN 60601-1-3:2008

Incorporating amendments/corrigenda issued since publication:

<i>This standard replaces:</i> I.S. EN 60601-1-3:1995	This standard is based EN 60601-1-3:2008 EN 60601-1-3:1994	d on:	Publish 24 Apri 26 Sep	e <i>d:</i> I, 2008 tember, 1995
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EUROPEAN STANDARD

EN 60601-1-3

NORME EUROPÉENNE EUROPÄISCHE NORM

April 2008

ICS 11.040.50; 13.280

Supersedes EN 60601-1-3:1994

English version

Medical electrical equipment -Part 1-3: General requirements for basic safety and essential performance -

Collateral Standard: Radiation protection in diagnostic X-ray equipment

(IEC 60601-1-3:2008)

Appareils électromédicaux -Partie 1-3: Exigences générales pour la sécurité de base et les performances essentielles -Norme collatérale: Radioprotection dans les appareils à rayonnement X de diagnostic (CEI 60601-1-3:2008) Medizinische elektrische Geräte -Teil 1-3: Allgemeine Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale -Ergänzungsnorm: Strahlenschutz von diagnostischen Röntgengeräten (IEC 60601-1-3:2008)

This European Standard was approved by CENELEC on 2008-03-01. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

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CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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EN 60601-1-3:2008

- 2 -

Foreword

The text of document 62B/673/FDIS, future edition 2 of IEC 60601-1-3, prepared by SC 62B, Diagnostic imaging equipment, of IEC TC 62, Electrical equipment in medical practice, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60601-1-3 on 2008-03-01.

The following date was fixed:

 latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement

(dop) 2008-12-01

This European Standard supersedes EN 60601-1-3:1994. However, EN 60601-1-3:1994 remains valid until all the Parts 2 that are used in conjunction with it have been withdrawn. No date of withdrawal of conflicting national standards (dow) has therefore been fixed. However, when Part 1-3 is used for appliances not covered by a Part 2, EN 60601-1-3:1994 is not to be used after 2009-09-12.

This EN 60601-1-3 has been restructured and aligned to EN 60601-1:2006 and focussed on general requirements for RADIATION PROTECTION that apply to all diagnostic X-RAY EQUIPMENT. Requirements particular to specific equipment have been removed and will be covered in particular standards. For a description of the changes, see the mapping in Annex C.

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive 93/42/EEC. See Annex ZZ.

This European Standard constitutes a collateral standard to EN 60601-1:2006, hereafter referred to as the general standard.

In the 60601 series of publications, collateral standards specify general requirements for safety applicable to:

- a subgroup of MEDICAL ELECTRICAL EQUIPMENT (e.g. RADIOLOGICAL equipment); or
- a specific characteristic of all MEDICAL ELECTRICAL EQUIPMENT, not fully addressed in the general standard (e.g. alarm systems).

In this collateral standard, the following print types are used:

- requirements and definitions: in roman type;
- test specifications: in 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 THE GENERAL STANDARD, IN THIS COLLATERAL STANDARD OR AS NOTED: IN SMALL CAPITALS.

In referring to the structure of this standard, the term

- "clause" means one of the thirteen 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 standard are preceded by the term "Clause" followed by the clause number. References to subclauses within this standard are by number only.

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

- 3 -

The verbal forms used in this standard conform to usage described in Annex H of the ISO/IEC Directives, Part 2. For the purposes of this standard, the auxiliary verb

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

Clauses, subclauses and definitions for which a rationale is provided in informative Annex A are marked with an asterisk (*).

Annexes ZA and ZZ have been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60601-1-3:2008 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 standards indicated:

IEC 60601-2-7	NOTE	Harmonized as EN 60601-2-7:1998 (not modified).
IEC 60601-2-28	NOTE	Harmonized as EN 60601-2-28:1993 (not modified).
IEC 60601-2-29	NOTE	Harmonized as EN 60601-2-29:1999 (not modified).
IEC 60601-2-32	NOTE	Harmonized as EN 60601-2-32:1994 (not modified).
IEC 60601-2-43	NOTE	Harmonized as EN 60601-2-43:2000 (not modified).
IEC 60601-2-44	NOTE	Harmonized as EN 60601-2-44:2001 (not modified).
IEC 60601-2-45	NOTE	Harmonized as EN 60601-2-45:2001 (not modified).
IEC 60580	NOTE	Harmonized as EN 60580:2000 (not modified).
IEC 60627	NOTE	Harmonized as EN 60627:2001 (not modified).
IEC 61262	NOTE	Harmonized in EN 61262 series (not modified).
IEC 62220	NOTE	Harmonized in EN 62220 series (not modified).
IEC 62220-1	NOTE	Harmonized as EN 62220-1:2003 (not modified).

EN 60601-1-3:2008

- 4 -

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication IEC 60336	<u>Year</u> - ¹⁾	<u>Title</u> Medical electrical equipment - X-ray tube assemblies for medical diagnosis - Characteristics of focal spots	<u>EN/HD</u> EN 60336	<u>Year</u> 2005 ²⁾
IEC 60522	1999	Determination of the permanent filtration of X-ray tube assemblies	EN 60522	1999
IEC 60601-1	2005	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	EN 60601-1	2006
IEC/TR 60788	2004	Medical electrical equipment - Glossary of defined terms	-	-
ISO 497	_ 1)	Guide to the choice of series of preferred numbers and series containing more rounded values of preferred numbers	-	-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

- 5 -

EN 60601-1-3:2008

Annex ZZ

(informative)

Coverage of Essential Requirements of EC Directives

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers all relevant essential requirements as given in Annex I of the EC Directive 93/42/EEC.

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directive concerned.

WARNING: Other requirements and other EC Directives may be applicable to the products falling within the scope of this standard.

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IEC 60601-1-3

Edition 2.0 2008-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Medical electrical equipment – Part 1-3: General requirements for basic safety and essential performance – Collateral Standard: Radiation protection in diagnostic X-ray equipment

Appareils électromédicaux –

Partie 1-3: Exigences générales pour la sécurité de base et les performances essentielles – Norme collatérale: Radioprotection dans les appareils à rayonnement X de diagnostic





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IEC 60601-1-3

Edition 2.0 2008-01

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- 2 -

CONTENTS

FOI	REWO	DRD		5
INT	RODU	JCTION		8
1	Scon	e obiec	and related standards	9
•	1 1	Scope		o
	1.1	Object		
	1.2		d standards	9
	1.5	1 3 1		
		1.3.1	Particular standards	
2	Norm	1.J.Z Nativo ro	ferences	
2	Tarm			10
3	Term	is and d		10
4	Gene	eral requ	lirements	20
	4.1	Statem	ent of compliance	20
	4.2	Compo	sition of reference materials	20
5	ME E	QUIPMEN	IT identification, marking and documents	20
	5.1	Markin	g on the outside of ME EQUIPMENT or ME EQUIPMENT parts	20
		5.1.1	General	20
		5.1.2	Marking requirements in subclauses	20
	5.2	Ассом	PANYING DOCUMENTS	20
		5.2.1	References in subclauses	21
		5.2.2	Dosimetric calibration	21
		5.2.3	General requirements for the reference of subassemblies and	0.4
		F O A	ACCESSORIES	
~	Dest	5.2.4	Instructions for use	
6	RADIA	ATION M	anagement	23
	6.1	Genera	al	23
	6.2	Initiatio	on and termination of the IRRADIATION	24
		6.2.1	Normal initiation and termination of the IRRADIATION	24
		6.2.2	Safety measures against failure of normal termination of the	24
	6.3	Radiat		
	0.0	631		24
		6.3.2	Reproducibility of the RADIATION output	
	6.4	Indicat	ion of operational states	
	•••	6.4.1	Indication of the X-RAY SOURCE ASSEMBLY selected	
		6.4.2	Indication of LOADING STATE	
		6.4.3	Indication of LOADING FACTORS and MODES OF OPERATION	
		6.4.4	Indication of automatic modes	25
		6.4.5	Dosimetric indications	26
	6.5	Аυтом	ATIC CONTROL SYSTEM	26
	6.6	SCATTE	ERED RADIATION reduction	26
	6.7	Imagin	g performance	26
		6.7.1	General	
		6.7.2	System performance	26
		6.7.3	Nominal focal spot value	27
		6.7.4	RADIATION DETECTOR OF X-RAY IMAGE RECEPTOR	27
7	Radi	ATION QU	JALITY	27

	7.1	HALF-VALUE LAYERS and TOTAL FILTRATION IN X-RAY EQUIPMENT	27
	7.2	Waveform of the X-RAY TUBE VOLTAGE	28
	7.3	Indication of FILTER properties	28
	7.4	Test for FILTRATION by irremovable materials	29
	7.5	Test for ADDED FILTERS and materials	29
	7.6	Test for HALF-VALUE LAYER	29
8	Limit and I	ation of the extent of the X-RAY BEAM and relationship between X-RAY FIELD	29
	8 1		20
	0.1 8.2		29 20
	8.3	Limiting DIAPHRAGM in X-RAY TURE ASSEMBLIES	29
	8.4	Confinement of EXTRA-EOCAL RADIATION	
	8.5	Relationship between X-RAY FIELD and IMAGE RECEPTION AREA	
	0.0	8.5.1 General	
		8.5.2 * FOCAL SPOT TO IMAGE RECEPTOR DISTANCE	30
		8.5.3 Correspondence between X-RAY FIELD and EFFECTIVE IMAGE	20
		RECEPTION AREA	30
0	Food		31 21
9		AL SPOT TO SKIN DISTANCE	
	9.1	General	31
10	9.Z	Information in the Accompanying Documents	31
10	RECE		31
	10.1	General	31
	10.2	Information in the ACCOMPANYING DOCUMENTS	31
11	Prote	ection against RESIDUAL RADIATION	32
12	* Pro	tection against LEAKAGE RADIATION	32
	12.1	General	32
	12.2	Mounting of X-RAY SOURCE ASSEMBLIES and X-RAY IMAGING ARRANGEMENTS	
	12.3	Statement of reference LOADING conditions	33
	12.4	LEAKAGE RADIATION in the LOADING STATE	33
	12.5	LEAKAGE RADIATION when not in the LOADING STATE	34
13	Prote	ection against STRAY RADIATION	34
	13.1	General	34
	13.2	Control of X-RAY EQUIPMENT from a PROTECTED AREA	34
	13.3	Protection by distance	35
	13.4	* Designated SIGNIFICANT ZONES OF OCCUPANCY	35
	13.5	Handgrips and control devices	36
	13.6	* Test for STRAY RADIATION	36
Anı	nex A	(informative) General guidance and rationale	
Anr	nex B	(normative) Values of the series R'10 and R'20, ISO 497	40
Anı	nex C	(informative) Mapping between this Edition 2 of IEC 60601-1-3 and Edition 1	41
Bib	liogra	phy	43
Ind	ex of (defined terms used in this collateral standard	45

- 4 -

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Figure 1 – Example of presentation of data on STRAY RADIATION		
Table 1 – Subclauses containing requirements for marking	20	
Table 2 – Subclauses requiring statements in ACCOMPANYING DOCUMENTS	21	
Table 3 – HALF-VALUE LAYERS IN X-RAY EQUIPMENT	28	

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MEDICAL ELECTRICAL EQUIPMENT -

Part 1-3: General requirements for basic safety and essential performance – Collateral Standard: Radiation protection in diagnostic X-ray equipment

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 60601-1-3 has been prepared by IEC subcommittee 62B: Diagnostic imaging equipment, of IEC technical committee 62: Electrical equipment in medical practice.

This second edition constitutes a collateral standard to IEC 60601-1: *Medical electrical equipment – Part 1: General requirements for basic safety and essential performance* hereafter referred to as the general standard.

This document cancels and replaces the first edition of IEC 60601-1-3, published in 1994 (which replaced IEC 407 issued in 1973). It constitutes a technical revision. This edition has been restructured and aligned to IEC 60601-1(2005) and focussed on general requirements for RADIATION PROTECTION that apply to all diagnostic X-RAY EQUIPMENT. Requirements particular to specific equipment have been removed and will be covered in particular standards. For a description of the changes, see the mapping in Annex C.

- 6 -

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

FDIS	Report on voting
62B/673/FDIS	62B/683/RVD

Full information on the voting for the approval of this collateral 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.

In the 60601 series of publications, collateral standards specify general requirements for safety applicable to:

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

Clauses, subclauses and definitions for which a rationale is provided in informative Annex A are marked with an asterisk (*).

A list of all parts of the IEC 60601 series, published under the general title *Medical electrical equipment*, can be found on the IEC website.



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