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**Protective devices against diagnostic medical X-radiation - Part 3: Protective clothing and protective devices for gonads**

Protective devices against diagnostic medical X-radiation -- Part 3: Protective clothing and protective devices for gonads

Strahlenschutz in der medizinischen Röntgendiagnostik -- Teil 3: Schutzkleidung und Gonadenschutz

Dispositifs de protection radiologique contre les rayonnements X pour diagnostic médical -- Partie 3: Vêtements et dispositifs de protection des gonades

<https://standards.iteh.ai/catalog/standards/sist/b4cf6b78-7693-481f-94d1-e07cf4ce0502/sist-en-61331-3-1999>

**Ta slovenski standard je istoveten z: EN 61331-3:1999**

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11.040.50	Radiografska oprema	Radiographic equipment
13.280	Varstvo pred sevanjem	Radiation protection
13.340.10	Varovalna obleka	Protective clothing

**SIST EN 61331-3:1999**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61331-3**

January 1999

ICS 11.040.50

English version

**Protective devices against diagnostic medical X-radiation  
Part 3: Protective clothing and protective devices for gonads  
(IEC 61331-3:1998)**

Dispositifs de protection radiologique  
contre les rayonnements X pour  
diagnostic médical  
Partie 3: Vêtements et dispositifs de  
protection des gonades  
(CEI 61331-3:1998)

Strahlenschutz in der medizinischen  
Röntgendiagnostik  
Teil 3: Schutzkleidung und  
Gonadenschutz  
(IEC 61331-3:1998)

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This European Standard was approved by CENELEC on 1999-01-01. 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.

This European Standard exists 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**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

### Foreword

The text of document 62B/347/FDIS, future edition 1 of IEC 61331-3, 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 61331-3 on 1999-01-01.

The following dates were 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) 1999-10-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2001-10-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes A and ZA are normative and annex B is informative.

Annex ZA has been added by CENELEC.

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Endorsement notice  
(standards.iteh.ai)

The text of the International Standard IEC 61331-3:1998 was approved by CENELEC as a European Standard without any modification.

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**Annex ZA (normative)****Normative references to international publications  
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60788	1984	Medical radiology - Terminology	HD 501 S1	1988
IEC 61331-1	1994	Protective devices against diagnostic medical X-radiation Part 1: Determination of attenuation properties of materials	-	-

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# INTERNATIONAL STANDARD

# IEC 61331-3

First edition  
1998-11

## Protective devices against diagnostic medical X-radiation –

### Part 3: Protective clothing and protective devices for gonads

<https://standards.iteh.ai/SIST/61331-3:1999>  
 Dispositifs de protection radiologique  
 contre les rayonnements X pour diagnostic médical –

Partie 3:  
Vêtements et dispositifs de protection radiologique  
des gonades

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International Electrotechnical Commission 3, rue de Varembé Geneva, Switzerland  
 Telefax: +41 22 919 0300 e-mail: inmail@iec.ch IEC web site <http://www.iec.ch>



Commission Electrotechnique Internationale  
 International Electrotechnical Commission  
 Международная Электротехническая Комиссия

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For price, see current catalogue

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PROTECTIVE DEVICES AGAINST DIAGNOSTIC MEDICAL X-RADIATION –****Part 3: Protective clothing and protective devices for gonads**

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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 the 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 National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61331-3 has been prepared by subcommittee 62B: Diagnostic imaging equipment, of IEC technical committee 62: Electrical equipment in medical practice.

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

FDIS	Report on voting
62B/347/FDIS	62B/357/RVD

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

Annex A forms an integral part of this standard.

Annex B is for information only.

A bilingual version of this standard may be issued at a later date.

## PROTECTIVE DEVICES AGAINST DIAGNOSTIC MEDICAL X-RADIATION –

### Part 3: Protective clothing and protective devices for gonads

#### 1 Scope and object

##### 1.1 Scope

This part of International Standard IEC 61331 applies to PROTECTIVE DEVICES such as PROTECTIVE CLOTHING for the protection of persons against X-RADIATION up to 150 kV, during RADIOLOGICAL examinations and interventional procedures.

NOTE – PROTECTIVE DEVICES are not intended by themselves to provide complete protection of persons, but are used to reduce the dose to persons where other methods of protection against X-RADIATION are insufficient or not applicable.

##### 1.2 Object

This standard deals with:

- general requirements on the ACCOMPANYING DOCUMENTS, and on design and materials used;
- standard sizes, particular design features, minimum ATTENUATION properties of materials, marking and standardized forms of statements of compliance with this standard.

It covers PROTECTIVE CLOTHING mainly for the protection of the OPERATOR, such as:

- PROTECTIVE APRONS; [SIST EN 61331-3:1999](https://standards.iteh.ai/catalog/standards/sist/b4cf6b78-7693-481f-94d1-e07c4ce0502/sist-en-61331-3-1999)
- PROTECTIVE GLOVES; <https://standards.iteh.ai/catalog/standards/sist/b4cf6b78-7693-481f-94d1-e07c4ce0502/sist-en-61331-3-1999>
- PROTECTIVE MITTENS;

and PROTECTIVE DEVICES for gonads for the protection of the PATIENT, such as:

- PROTECTIVE GONAD APRONS;
- SCROTUM SHIELDS;
- OVARY SHIELDS;
- SHADOW SHIELDS.

The latter group of PROTECTIVE DEVICES is intended to be used during RADIOLOGICAL examinations to minimize the effects of IRRADIATION on the reproductive organs particularly with regard to genetic damage.

#### 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 61331. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 61331 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60788:1984, *Medical radiology – Terminology*

IEC 61331-1:1994, *Protective devices against diagnostic medical X-radiation – Part 1: Determination of attenuation properties of materials*