

Australian/New Zealand Standard™

**Protective devices against diagnostic
medical X-radiation**

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

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee HE/3, Medical Electrical Equipment. It was approved on behalf of the Council of Standards Australia on 30 November 1999 and on behalf of the Council of Standards New Zealand on 3 December 1999. It was published on 18 February 2000.

The following interests are represented on Committee HE/3:

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Australasian Society for Ultrasound in Medicine
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Part 3: Protective clothing and protective devices for gonads

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee HE/3, Medical Electrical Equipment as a Joint Standard.

This Standard is identical with and reproduced from IEC 61331-3:1998.

Other Standards issued in this series are:

AS/NZS 4543.1:1999, *Protective devices against diagnostic medical X-radiation, Part 1: Determination of attenuation properties of materials*; and

AS/NZS 4543.2:1999, *Protective devices against diagnostic medical X-radiation, Part 2: Protective glass plates*.

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- (a) Its number does not appear on each page of text and its identity is shown on the cover and title page.
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The references to international Standards should be replaced by references to the following Australian or Joint Australian/New Zealand Standards:

<i>Reference to International Standard or other Publication</i>	<i>Australian/New Zealand Standard</i>
IEC	AS/NZS
60788 Medical radiology—Terminology	—
61331 Protective devices against diagnostic medical X-radiation	4543 Protective devices against diagnostic medical X-radiation
61331-1 Part 1: Determination of attenuation properties of materials	4543.1 Part 1: Determination of attenuation properties of materials

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the Annex to which they apply. A ‘normative’ Annex is an integral part of a Standard, whereas an ‘informative’ Annex is only for information and guidance.

CONTENTS

Page

1	Scope and object.....	1
	1.1 Scope	1
	1.2 Object	1
2	Normative references	1
3	Terminology	2
	3.1 Degree of requirements	2
	3.2 Use of terms	2
	3.3 Defined terms.....	2
4	General	2
	4.1 ACCOMPANYING DOCUMENTS.....	2
	4.2 Language of the ACCOMPANYING DOCUMENTS	3
	4.3 General requirement on marking.....	3
	4.4 Design	3
	4.5 Materials	3
5	PROTECTIVE APRONS	4
	5.1 Design	4
	5.2 Materials	4
	5.3 Dimensions	5
	5.4 Marking.....	5
	5.5 Statement of compliance	6
6	PROTECTIVE GLOVES	6
	6.1 Design	6
	6.2 Materials	7
	6.3 Dimensions	7
	6.4 Marking.....	7
	6.5 Statement of compliance	8
7	PROTECTIVE MITTENS	8
	7.1 Design	8
	7.2 Materials	9
	7.3 Dimensions	9
	7.4 Marking.....	9
	7.5 Statement of compliance	10
8	PROTECTIVE GONAD APRONS	10
	8.1 Design	10
	8.2 Materials	10
	8.3 Dimensions	10
	8.4 Marking.....	11
	8.5 Statement of compliance	11

9	SCROTUM SHIELDS	11
	9.1 Design	12
	9.2 Materials	12
	9.3 Dimensions	12
	9.4 Marking.....	12
	9.5 Statement of compliance	13
10	OVARY SHIELDS	13
	10.1 Design	13
	10.2 Materials	13
	10.3 Dimensions	13
	10.4 Marking.....	13
	10.5 Statement of compliance	13
11	SHADOW SHIELDS.....	14
	11.1 Design	14
	11.2 Materials	14
	11.3 Dimensions	14
	11.4 Marking.....	14
	11.5 Statement of compliance	15

Tables

1	Standard sizes of PROTECTIVE APRONS.....	5
2	Standard sizes of PROTECTIVE GLOVES.....	7
3	Standard sizes of PROTECTIVE GONAD APRONS.....	11

Figures

1	Inside dimensions of PROTECTIVE GLOVES	7
2	Inside minimum dimensions of PROTECTIVE MITTENS	9

Annexes

A	Terminology – Index of defined terms.....	16
B	Bibliography	17

AUSTRALIAN/NEW ZEALAND STANDARD

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;
- PROTECTIVE GLOVES;
- 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*



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