



**Respiratory protective devices—
Methods of test and test equipment**

Part 11: Determination of field of vision

STANDARDS
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 - Certification Interests, Australia
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 - Department of Defence (Australian Government)
 - Department of Trade and Investment, NSW
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-

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Australian Standard[®]

**Respiratory protective devices—
Methods of test and test equipment**

Part 11: Determination of field of vision

Originally as part of AS Z18—1963.
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Revised in part and redesignated as AS ISO 16900.11:2015.

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PREFACE

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee SF-010, Occupational Respiratory Protection, to ultimately supersede (in part) AS/NZS 1716:2012, *Respiratory protective devices*.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

It is the Committee's intention that AS/NZS 1716:2012 will not be superseded until all relevant test methods and requirements covering respiratory protective devices are published by ISO and adopted as Australian or Australian/New Zealand Standards.

A period of time (to be determined at a later date) will be allowed for manufacturers, regulators and end users to test, assess and obtain appropriate products and programs before AS/NZS 1716:2012 is then withdrawn.

The objective of this Standard is to provide test methods for determining the field of vision for a respiratory protective device.

This Standard is identical with, and has been reproduced from ISO 16900-11:2013, *Respiratory protective devices—Methods of test and test equipment*, Part 11: *Determination of field of vision*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) In the source text 'this part of ISO 16900' should read 'this Australian Standard'.
- (b) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>	<i>Australian Standard</i>
ISO 16972 Respiratory protective devices—Terms, definitions, graphical symbols and units of measurement	AS ISO 16972 Respiratory protective devices—Terms, definitions, graphical symbols and units of measurement

Only normative references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

The term 'normative' has been used in this Standard to define the application of the annex to which it applies. A 'normative' annex is an integral part of a Standard.

CONTENTS

1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Prerequisites	1
5	General test requirements	2
6	Principle	2
7	Apparatus	2
8	Device preparation	2
	8.1 Mounting the device	2
	8.2 Mapping the field of vision	3
	8.3 Calculating the Visual Field Score (VFS)	3
9	Test report	6
	Annex A (normative) Application of uncertainty of measurement	7
	Annex B (normative) Headforms for determining the field of vision	9
	Bibliography	11

INTRODUCTION

This part of ISO 16900 is intended as a supplement to the respiratory protective devices (RPD) performance standard ISO 17420 (all parts). Test methods are specified for complete devices or parts of devices that are intended to comply with ISO 17420. If deviations from the test method given in this part of ISO 16900 are necessary, these deviations will be specified in ISO 17420.

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AUSTRALIAN STANDARD

Respiratory protective devices—Methods of test and test equipment**Part 11:
Determination of field of vision****1 Scope**

This part of ISO 16900 specifies the laboratory test method for determining the field of vision for a respiratory protective device (RPD).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 16972, *Respiratory protective devices — Terms, definitions, graphical symbols and units of measurement*

ISO 17420-3, *Respiratory protective devices — Performance requirements — Part 3: Thread connection*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 16972 and the following apply.

3.1**apertometer**

extended hemispherical dome for measuring the angular area of the field of vision (peripheral isopter) of an RPD when mounted on a headform

3.2**peripheral isopter**

field of vision while wearing an RPD, indicated by the lighted area, which is measured by a solid line connecting the points

3.3**visual field score****VFS**

summation of grid points contained within the peripheral isopter shadow cast onto the apertometer by the RPD

4 Prerequisites

The performance standard shall indicate the conditions of the test. This includes the following:

- a) number of specimens;
- b) any preconditioning;
- c) use of filter simulator, if applicable;
- d) any accessories;