

Australian/New Zealand Standard™

**Ophthalmic optics – Uncut finished
spectacle lenses**

**Part 1: Specifications for single-
vision and multifocal lenses (ISO
8980-1:2017, MOD)**



AS/NZS 8980.1:2019

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- Australian Dispensing Opticians Association
- New Zealand Association of Optometrists
- Optical Distributors and Manufacturers Association of Australia
- Optometrists and Dispensing Opticians Board
- Optometry Australia
- Queensland University of Technology
- University of New South Wales

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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand MS-024, Spectacles, to supersede AS/NZS ISO 8980.1:2011, *Ophthalmic optics—Uncut finished spectacle lenses, Part 1: Specifications for single-vision and multifocal lenses*.

The objective of this Standard is to specify requirements and verification methods for the optical and geometrical properties for uncut finished single-vision and multifocal spectacle lenses.

This Standard is an adoption with national modifications, and has been reproduced from, ISO 8980-1:2017, *Ophthalmic optics — Uncut finished spectacle lenses — Part 1: Specifications for single-vision and multifocal lenses*.

Appendix ZZ lists the variations to ISO 8980-1:2017 for the application of this Standard in Australia and New Zealand.

As this document has been reproduced from an International Standard, a full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

This fourth edition cancels and replaces the third edition (ISO 8980-1:2004), which has been technically revised. It also incorporates the Technical Corrigendum ISO 8980-1:2004/Cor.1:2006.

A list of all parts in the ISO 8980 series can be found on the ISO website.

Australian/New Zealand Standard

Ophthalmic optics – Uncut finished spectacle lenses

Part 1: Specifications for single-vision and multifocal lenses (ISO 8980-1:2017, MOD)

1 Scope

This document specifies requirements and verification methods for the optical and geometrical properties for uncut finished single-vision and multifocal spectacle lenses.

2 Normative references

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.

ISO 7944, *Optics and optical instruments — Reference wavelengths*

ISO 8429, *Optics and optical instruments — Ophthalmology — Graduated dial scale*

ISO 8598-1, *Optics and optical instruments — Focimeters — Part 1: General purpose instruments*

ISO 8980-3, *Ophthalmic optics — Uncut finished spectacle lenses — Part 3: Transmittance specifications and test methods*

ISO 13666, *Ophthalmic optics — Spectacle lenses — Vocabulary*

ISO 14889, *Ophthalmic optics — Spectacle lenses — Fundamental requirements for uncut finished lenses*

ISO 21987, *Ophthalmic optics — Mounted spectacle lenses*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13666 and ISO 21987 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Classification

Uncut finished lenses are classified as follows:

- a) single-vision finished lenses;
- b) multifocal finished lenses;
- c) power-variation finished lenses.

5 Requirements

5.1 Reference temperature

The tolerances shall apply at a temperature of $23\text{ °C} \pm 5\text{ °C}$.