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**Ophthalmic optics — Uncut finished  
spectacle lenses —**

**Part 2:  
Specifications for progressive power  
lenses**

*Optique ophtalmique — Verres de lunettes finis non détournés —  
Partie 2: Spécifications pour les verres progressifs*



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Published in Switzerland

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 8980-2 was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

This second edition cancels and replaces the first edition (ISO 8980-2:1996), which has been technically revised.

ISO 8980 consists of the following parts, under the general title *Ophthalmic optics — Uncut finished spectacle lenses*:

- *Part 1: Specifications for single-vision and multifocal lenses*
- *Part 2: Specifications for progressive power lenses*
- *Part 3: Transmittance specifications and test methods*
- *Part 4: Specifications and test methods for anti-reflective coatings*
- *Part 5: Minimum requirements for spectacle lenses claimed to be abrasion resistant*

# Ophthalmic optics — Uncut finished spectacle lenses —

## Part 2:

## Specifications for progressive power lenses

### 1 Scope

This part of ISO 8980 specifies requirements for the optical and geometrical properties for uncut finished progressive spectacle lenses.

### 2 Normative references

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.

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

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

ISO 8598, *Optics and optical instruments — Focimeters*

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

ISO 14889:2003, *Ophthalmic optics — Spectacle lenses — Fundamental requirements for uncut finished lenses*

### 3 Terms and definitions

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

#### 3.1

**focimeter, focal point on axis**

**FOA focimeter**

focimeter in which the focal point of the focimeter remains on the axis of the focimeter when the lens under test is measured at a point of the lens where prism is not zero

See Figure 1.

NOTE Examples of this design include all manual focusing focimeters and some automatic focimeters.

#### 3.2

**focimeter, infinite on axis**

**IOA focimeter**

focimeter in which the collimated beam coincides with the focimeter axis and the focal point of the focimeter goes off the axis of the focimeter when the lens under test is measured at a point of the lens where the prism is not zero