

ILNAS

Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN ISO 8980-1:2017

Ophthalmic optics - Uncut finished spectacle lenses - Part 1: Specifications for single-vision and multifocal lenses (ISO 8980-1:2017)

Augenoptik - Rohkantige fertige
Brillengläser - Teil 1: Anforderungen an
Ein- und Mehrstärkengläser (ISO
8980-1:2017)

Optique ophtalmique - Verres de lunettes
finis non détournés - Partie 1:
Spécifications pour les verres unifocaux
et multifocaux (ISO 8980-1:2017)

National Foreword

This European Standard EN ISO 8980-1:2017 was adopted as Luxembourgish Standard ILNAS-EN ISO 8980-1:2017.

Every interested party, which is member of an organization based in Luxembourg, can participate for FREE in the development of Luxembourgish (ILNAS), European (CEN, CENELEC) and International (ISO, IEC) standards:

- Participate in the design of standards
- Foresee future developments
- Participate in technical committee meetings

<https://portail-qualite.public.lu/fr/normes-normalisation/participer-normalisation.html>

THIS PUBLICATION IS COPYRIGHT PROTECTED

Nothing from this publication may be reproduced or utilized in any form or by any mean - electronic, mechanical, photocopying or any other data carries without prior permission!

ILNAS-EN ISO 8980-1:2017

EUROPEAN STANDARD **EN ISO 8980-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2017

ICS 11.040.70

Supersedes EN ISO 8980-1:2004

English Version

**Ophthalmic optics - Uncut finished spectacle lenses - Part
1: Specifications for single-vision and multifocal lenses
(ISO 8980-1:2017)**

Optique ophtalmique - Verres de lunettes finis non
détourrés - Partie 1: Spécifications pour les verres
unifocaux et multifocaux (ISO 8980-1:2017)

Augenoptik - Rohkantige fertige Brillengläser - Teil 1:
Anforderungen an Ein- und Mehrstärkengläser (ISO
8980-1:2017)

This European Standard was approved by CEN on 26 May 2017.

CEN 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 CEN-CENELEC Management Centre or to any CEN 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 CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

	Page
European foreword.....	3

European foreword

This document (EN ISO 8980-1:2017) has been prepared by Technical Committee ISO/TC 172 "Optics and photonics" in collaboration with Technical Committee CEN/TC 170 "Ophthalmic optics" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2018, and conflicting national standards shall be withdrawn at the latest by February 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 8980-1:2004.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 8980-1:2017 has been approved by CEN as EN ISO 8980-1:2017 without any modification.

Fourth edition
2017-07

Ophthalmic optics — Uncut finished spectacle lenses —

Part 1: Specifications for single-vision and multifocal lenses

*Optique ophtalmique — Verres de lunettes finis non détournés —
Partie 1: Spécifications pour les verres unifocaux et multifocaux*



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Classification	1
5 Requirements	2
5.1 Reference temperature	2
5.2 Optical requirements	2
5.2.1 General	2
5.2.2 Back vertex power	2
5.2.3 Direction of the cylinder axis	2
5.2.4 Addition power for multifocal lenses	3
5.2.5 Prismatic power	3
5.2.6 Prism base setting	4
5.3 Geometrical requirements	4
5.3.1 Requirements for size and thickness	4
5.3.2 Requirements on segment dimensions for multifocal lenses	5
5.4 Orientation requirement for polarizing lenses	5
6 Verification methods	5
6.1 General	5
6.2 Verification method for back vertex power	5
6.3 Verification method for the direction of the cylinder axis	5
6.3.1 General	5
6.3.2 Single-vision lenses	5
6.3.3 Multifocal lenses	5
6.4 Verification method for prismatic power	6
6.4.1 General	6
6.4.2 Single-vision lenses (excluding position-specific single-vision lenses)	6
6.4.3 Position-specific single-vision lenses	6
6.4.4 Multifocal lenses	6
6.5 Verification method for addition power	6
6.5.1 General	6
6.5.2 Procedure	6
6.6 Verification method for segment size	7
6.7 Inspection method for material and surface quality	7
7 Marking requirements for single-vision lenses	7
7.1 Position-specific single-vision lenses	7
7.2 Polarizing lenses	7
8 Identification and information	8
9 Reference to this document	8
Annex A (informative) Material and surface quality	9
Bibliography	10