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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 8624**

March 2002

ICS 11.040.70

Supersedes EN ISO 8624:1996

English version

## Ophthalmic optics - Spectacle frames - Measuring system and terminology (ISO 8624:2002)

Optique ophtalmique - Montures de lunettes - Système de mesure et terminologie (ISO 8624:2002)

Augenoptik - Brillenfassungen - Maßsystem und Begriffe (ISO 8624:2002)

This European Standard was approved by CEN on 6 March 2002.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

**EN ISO 8624:2002 (E)****Foreword**

This document (ISO 8624:2002) has been prepared by Technical Committee ISO/TC 172 "Optics and optical instruments" 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of an identical text or by endorsement, at the latest by September 2002, and conflicting national standards shall be withdrawn at the latest by September 2002.

This document supersedes EN ISO 8624:1996.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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**Endorsement notice**

The text of the International Standard ISO 8624:2002 has been approved by CEN as a European Standard without any modifications.

# INTERNATIONAL STANDARD

**ISO  
8624**

Second edition  
2002-03-15

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## **Ophthalmic optics — Spectacle frames — Measuring system and terminology**

*Optique ophtalmique — Montures de lunettes — Système de mesure et  
terminologie*

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Reference number  
ISO 8624:2002(E)

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Printed in Switzerland

## 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 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 8624 was prepared by Technical Committee ISO/TC 172, *Optics and optical instruments*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

This second edition cancels and replaces the first edition (ISO 8624:1991), which has been technically revised.

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# Ophthalmic optics — Spectacle frames — Measuring system and terminology

## 1 Scope

This International Standard specifies a measuring system for spectacle frames. It applies to fronts which are intended to be symmetrical.

## 2 Measuring system

The measuring system for spectacle frames shall be as detailed in Figures 1 and 2 and in Table 1.

If codes are used as abbreviations in spectacle frame documentation, the standardized letter codes in Table 1 shall be employed.

The measuring system is based on the boxed lens (boxing) system, which uses a rectangle tangential to the lens shape as the basis for the determination of the dimensions of the spectacle front. The upper tangent is common to both lens shapes and shall be regarded as horizontal. The measuring system comprises several horizontal and vertical dimensions and reference points. The knowledge of these is necessary for the manufacturing, ordering and adjustment of spectacle frames, as well as for the exact mounting of spectacle lenses into spectacle frames.

NOTE Annex A includes complementary terms and definitions relating to spectacle frame measurement.

**Table 1 — Terms, codes and definitions** (see Figures 1 and 2)

Term	Code	Definition
boxed centre	C	intersection of the <i>horizontal</i> and <i>vertical centrelines</i> of the rectangular box which circumscribes the <i>lens shape</i> <sup>a</sup>
horizontal boxed lens size; horizontal lens size	<i>a</i>	distance between the vertical sides of the rectangular box which circumscribes the <i>lens shape</i> <sup>a, b</sup>
vertical boxed lens size; vertical lens size	<i>b</i>	distance between the horizontal sides of the rectangular box which circumscribes the <i>lens shape</i> <sup>a</sup>
boxed centre distance; distance between centres	<i>c</i>	distance between the <i>boxed centres</i> , C
distance between lenses	<i>d</i>	horizontal distance between the nasal vertical sides of the rectangular boxes which circumscribe the right and left <i>lens shapes</i> <sup>c</sup>
overall length of side	<i>l</i>	length (see Figure 2) from the intersection of the dowel screw's axis with the median plane of the joint to the end of the side and parallel to the centreline of it, the drop having been straightened

<sup>a</sup> In the definitions, the term *lens shape* refers to the shape of hypothetical spectacle lenses with:

- for a spectacle lens having a bevelled edge, the outermost edge of the spectacle lens, the lens having a bevel which includes a symmetrical angle of 120° and a bevel width greater than the width of the groove in the front;
- for a spectacle lens having a flat or grooved edge, the outermost edge of the spectacle lens.

<sup>b</sup> For spectacle frames having a significant *face form angle*, the *horizontal boxed lens size* shall be measured in the “plane” of the individual *lens shape*.

<sup>c</sup> Previous users of the obsolete datum system should note that this is the datum measurement “minimum between lenses”.

NOTE Words in italics are terms defined within this International Standard.