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Eye and face protection — Test methods —

Part 4: Headforms

*Protection des yeux et du visage — Méthodes d'essai —
Partie 4: Fausses têtes*



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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).

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For an explanation of 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 www.iso.org/iso/foreword.html.

This document was prepared by ISO/TC 94, *Personal safety — Personal protective equipment*, Subcommittee SC 6, *Eye and face protection*.

A list of all parts in the ISO 18526 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

The family of documents comprised of the ISO 16321 series, the ISO 18526 series and the ISO 18527 series was developed in response to the worldwide stakeholders' demand for minimum requirements and test methods for eye and face protectors traded internationally. ISO 4007 gives the terms and definitions for all the various product types. The test methods are given in the ISO 18526 series, while the requirements for occupational eye and face protectors are given in the ISO 16321 series. Eye protectors for specific sports are mostly dealt with by the ISO 18527 series. A guidance document, ISO 19734, for the selection, use and maintenance of eye and face protectors is under preparation.

The basic anatomical requirements of the users of eye and face protection are to be considered when selecting an appropriate size of protector for comfortable and functional use. This document provides the anthropometric and biomechanical data required to prepare headforms used for the testing of protectors. The headform dimensions (series 1 and 2) are based on measurements of humans by the USA's National Institute of Occupational Safety and Health (NIOSH), which is part of the Centers for Disease Control and Prevention.

This document provides headform dimensions based on measurements of humans. Further information is given in [Annex A](#) and [Annex B](#), which, together with [Figure 3](#), are reproduced with NIOSH's and the authors' permission. [Figures 2](#) and [3](#) show the headforms that are slightly modified to show better eye detail.