

### SLOVENSKI STANDARD oSIST prEN ISO 18526-4:2018

01-julij-2018

Varovanje oči in obraza - Preskusne metode - 4. del: Modeli glav za preskušanje (ISO/DIS 18526-4:2018)

Eye and face protection - Test methods - Part 4: Headforms (ISO/DIS 18526-4:2018)

Augen- und Gesichtsschutz - Prüfverfahren - Teil 4 Prüfköpfe (ISO/DIS 18526-4:2018)

Protection des yeux et du visage - Méthodes d'essai - Partie 4: Fausses têtes (ISO/DIS 18526-4:2018)

Ta slovenski standard je istoveten z: prEN ISO 18526-4

ICS:

13.340.20 Varovalna oprema za glavo Head protective equipment

oSIST prEN ISO 18526-4:2018 en

oSIST prEN ISO 18526-4:2018

# iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 18526-4:2020 tps://standards.iteh.ai/catalog/standards/sist/8083606d-4c95-43e6-996f

### DRAFT INTERNATIONAL STANDARD ISO/DIS 18526-4

ISO/TC **94**/SC **6** 

Secretariat: BSI

Voting begins on: **2018-05-18** 

Voting terminates on:

2018-08-10

### Eye and face protection — Test methods —

#### Part 4:

#### Headforms

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

ICS: 13.340.20

### iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 18526-4:2020 https://standards.iteh.ai/catalog/standards/sist/8083606d-4c95-43e6-996f-

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENT AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

This document is circulated as received from the committee secretariat.

### ISO/CEN PARALLEL PROCESSING



Reference number ISO/DIS 18526-4:2018(E)

# iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 18526-4:2020 https://standards.iteh.ai/catalog/standards/sist/8083606d-4c95-43e6-996f-



#### COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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 CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Fax: +41 22 749 09 47 Email: copyright@iso.org Website: www.iso.org Published in Switzerland

Cor	ntents Pa	age
Fore	word	.iv
Intro	duction	<b>v</b>
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Headforms 4.1 Adults 4.2 Children	1
Anne	ex A (informative) Anthropometric measurements	6
Anne	ex B (informative) Anthropometric data for head and face dimensions	7
Bibli	ography	14

# iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN ISO 18526-4:2020</u> https://standards.iteh.ai/catalog/standards/sist/8083606d-4c95-43e6-996fc09319c3bd1d/sist-en-iso-18526-4-2020

#### 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 <a href="www.iso.org/directives">www.iso.org/directives</a>).

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 <a href="https://www.iso.org/patents">www.iso.org/patents</a>).

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 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: <a href="www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

The committee responsible for this document is 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.

https://standards.iteh.ai/catalog/standards/sist/8083606d-4c95-43e6-996f-c09319c3bd1d/sist-en-iso-18526-4-2020

#### Introduction

This family of documents 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 in the ISO 18526- series, while the requirements for occupational eye and face protectors are in the ISO 16321- series. Eye protection for specific sports is mostly dealt with by the ISO 18527- series. A guidance document for the selection, use and maintenance of eye and face protectors is in preparation.

For an appropriate selection and use of protectors, basic anatomical demands of the users of eye and face protection are considered.

Anthropometric and biomechanical data are required to prepare headforms used for testing of protectors.

This document provides headform dimensions based on measurements of humans. Further information is given in the informative  $\underline{Annex\ A}$  and  $\underline{Annex\ B}$ .

# iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 18526-4:2020 https://standards.iteh.ai/catalog/standards/sist/8083606d-4c95-43e6-996f oSIST prEN ISO 18526-4:2018

## iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 18526-4:2020 https://standards.iteh.ai/catalog/standards/sist/8083606d-4c95-43e6-996f-

### Eye and face protection — Test methods —

### Part 4: **Headforms**

#### 1 Scope

This document specifies dimensions and tolerances of the headforms used for the testing of eye and face protectors.

Additional information are given for:

- Anthropometric measurement methods;
- Anthropometric data for head and face dimensions;
- Human test panels.

#### 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.

CSA Z262.6:2014Specifications for facially featured headforms

https://standards.iteh.ai/catalog/standards/sist/8083606d-4c95-43e6-996f-

### 3 Terms and definitions 19c3bd1d/sist-en-iso-18526-4-2020

For the purposes of this document, the terms and definitions given in ISO 4007 apply.

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

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

#### 4 Headforms

#### 4.1 Adults

Six different sizes of headforms are used for testing as given in Table 1.

Table 1 — Classification of headforms for protectors

Small	1-S	2-S
Medium	1-M	2-M
Large	1-L	2-L

Statistically these six headforms cover approximately 95% of the population included in this document. Annex A and Annex B provides detailed information on data collection and the human populations that the data is measured from. The information in Annex A and Annex B are from NIOSH papers and is printed with permission of the author.

CAD files that may be used with 3-D printers are available from the NIOSH website for those wishing to build their own headforms or to use this data for the testing of protectors.

To access the CAD files:

Everyone is responsible for obtaining a third-party FileZilla FTP Client capable of FTP over Secure Shell (SSH) when using Private FTP.

The following information is needed to access the site:

Host: sftp.cdc.gov

User Name: nioshgold

at https://filezilla-project.org/.

Password: dlogns98

To access the FTP site, you need a program called FileZilla Client. It is free and is available for download

The information for the FTP site (Host, Username, Password, Port) is put into the appropriate fields of the Quickconnect bar.

Clicking on Quickconnect button will connect with the folder.

Examples of the headforms are given in Figure 1 and 2. These figures are not in the same scale as other headform pictures, for details use the CAD files.



SIST EN ISO 18526-4 teh.ai/catalog/standards/sist



1-L Front



1-M Front



1-L Side

1-M Side



1-S Front



1-S Side

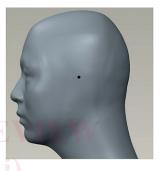
NOTE Figures are not to scale.

Figure 1 — Examples of 1-S, 1-M, 1-L headforms (front and side view)



2-L Front

(standards ital)



2-L Side



SIST EN ISO 18526-4:202<u>0</u> /catalog/standards/sist/808360 /c3bd1d/sist-en-iso-18526-4-2



2-M Side



2-M Front

2-S Front



2-S Side

NOTE Figures are not to scale.

Figure 2 — Examples of 2-S, 2-M, 2-L headforms (front and side view)