
Size designation of clothes —

**Part 1:
Anthropometric definitions for body
measurement**

Désignation des tailles de vêtements —

Partie 1: Définitions anthropométriques pour la mesure du corps

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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).

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 www.iso.org/patents).

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: www.iso.org/iso/foreword.html

The committee responsible for this document is ISO/TC 133, *Clothing sizing systems — Size designation, size measurement methods and digital fittings*.

This first edition cancels and replaces ISO 3635:1981 and ISO 8559:1989, which have been technically revised.

A list of all parts in ISO 8559 can be found on the ISO website.

Introduction

This document is the first of a three-part International Standard (ISO 8559-1, ISO 8559-2 and ISO 8559-3). It comprises the definition and generation of anthropometric measurements that can be used for the creation of size and shape profiles and their application in the field of clothing. It forms a foundation for ISO 8559-2, *Primary and secondary dimension indicators*, and ISO 8559-3, *Methodology for creating body measurement tables and intervals*. Reference is made to measurements and procedures in ISO 7250-1.

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Size designation of clothes —

Part 1:

Anthropometric definitions for body measurement

1 Scope

This document provides a description of anthropometric measurements that can be used as a basis for the creation of physical and digital anthropometric databases. The list of measurements specified in this document is intended to serve as a guide for practitioners in the field of clothing who are required to apply their knowledge to select population market segments and to create size and shape profiles for the development of all garment types and their equivalent fit mannequins. The list provides a guide for how to take anthropometric measurements, as well as give information to clothing product development teams and fit mannequin manufacturers on the principles of measurement and their underlying anatomical and anthropometrical bases.

[Annex A](#) describes the use of the pictogram (standardized and modified) based on the selection of most usual body dimensions used for clothing size designation.

This document is intended to be used in conjunction with national, regional or international regulations or agreements to ensure harmony in defining population groups and to allow comparison of anthropometric data sets.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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

NOTE [Annex C](#) summarizes the mapping of the terms related to body landmark points, levels ([3.1](#)) and lines and planes ([3.2](#)) with listed measurements:

- [Table C.1](#) — Vertical measurements ([5.1](#)), breadths, widths and depths ([5.2](#));
- [Table C.2](#) — Girth measurements ([5.3](#));
- [Table C.3](#) — Distances measured following the surface of the body ([5.4](#));
- [Table C.4](#) — Other measurements ([5.6](#)), calculated measurements ([5.7](#)).

3.1 Landmark points and levels ([Figures 1 to 26](#))

NOTE See [Annex C](#) for mapping of points and levels to measurements.

3.1.1

shoulder point

most lateral point of the lateral edge of the spine (acromial process) of the scapula, projected vertically to the surface of the skin

Note 1 to entry: See [Figure 1](#).

Note 2 to entry: Identical to acromion in ISO 7250-1.

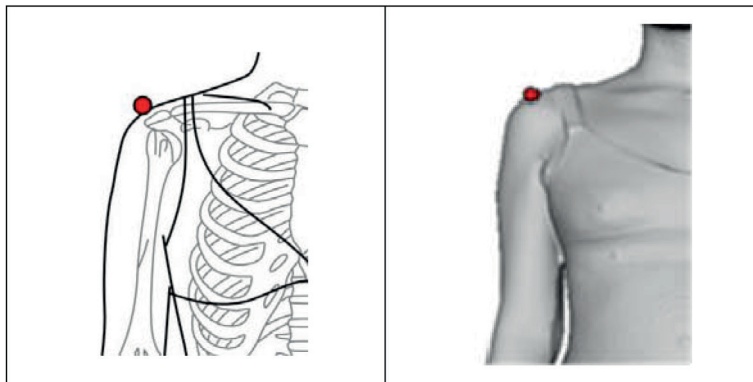


Figure 1 — Shoulder point

3.1.2

centre point of brow ridge

most anterior point of the forehead between the brow ridges in the mid-sagittal plane

Note 1 to entry: See [Figure 2](#).

Note 2 to entry: Identical to Glabella in ISO 7250-1.

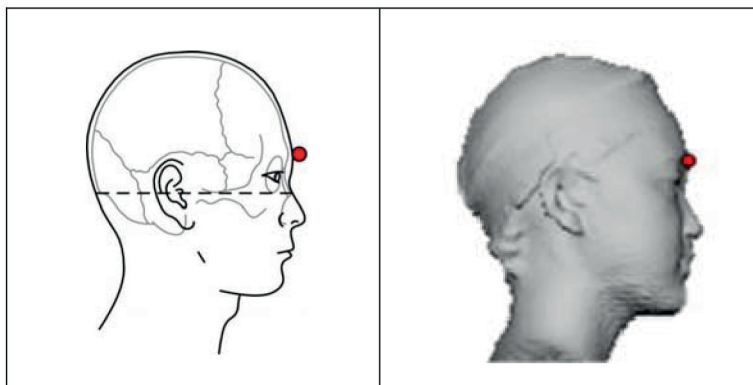


Figure 2 — Centre point of brow ridge

3.1.3

tragion

point of the notch just above the tragus (the small cartilaginous flap in front of the ear hole)

Note 1 to entry: See [Figure 3](#).

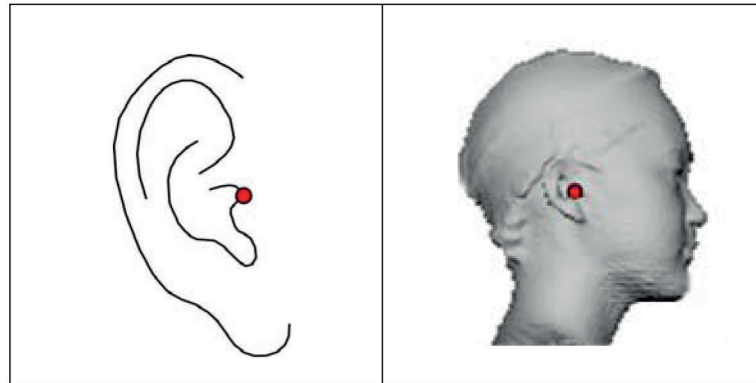


Figure 3 — Tragion

**3.1.4
orbitale**

lowest point of the lower border of the orbital margin (lower edge of the eye socket)

Note 1 to entry: See [Figure 4](#).

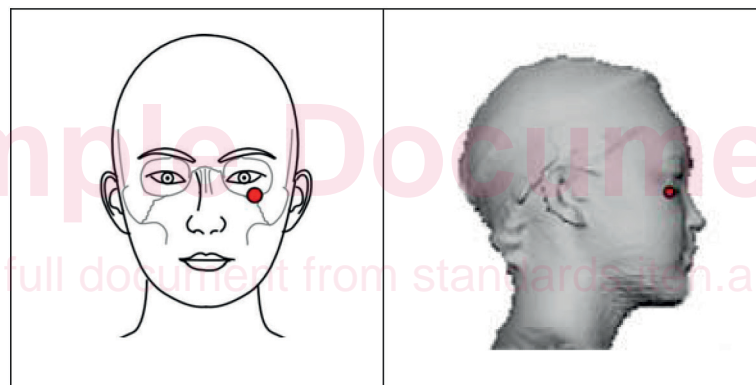


Figure 4 — Orbitale

**3.1.5
lowest point of chin**

lowest point of the tip of the chin in the midsagittal plane, projected anteriorly when the head is held in the Frankfurt plane

Note 1 to entry: See [Figure 5](#).

Note 2 to entry: Identical to menton in ISO 7250-1.

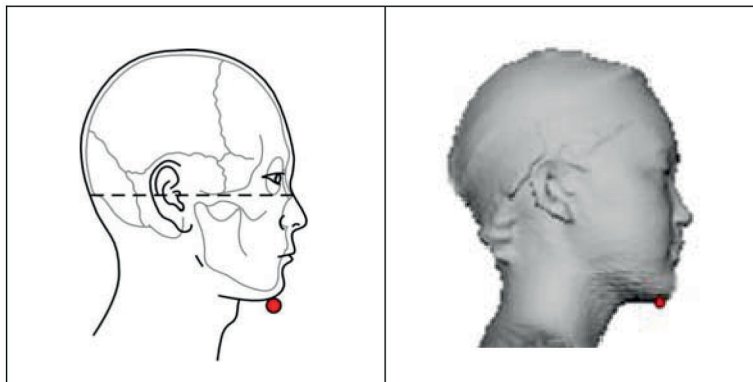


Figure 5 — Lowest point of chin

3.1.6

back neck point

tip of the prominent bone at the base of the back of the neck (spinous process of the seventh cervical vertebra) in the mid-sagittal plane, and projected posteriorly to the surface of the skin

Note 1 to entry: See [Figure 6](#).

Note 2 to entry: Identical to cervicale in ISO 7250-1.

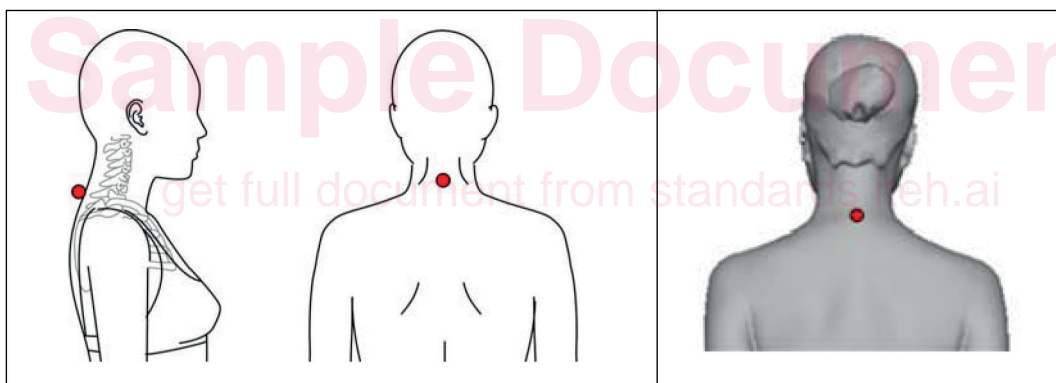


Figure 6 — Back neck point

3.1.7

side neck point

crossing point of the neck base line and the anterior border of the trapezius muscle

Note 1 to entry: See [Figure 7](#).

Note 2 to entry: Side neck points are determined when locating neck base line ([3.2.1](#)).

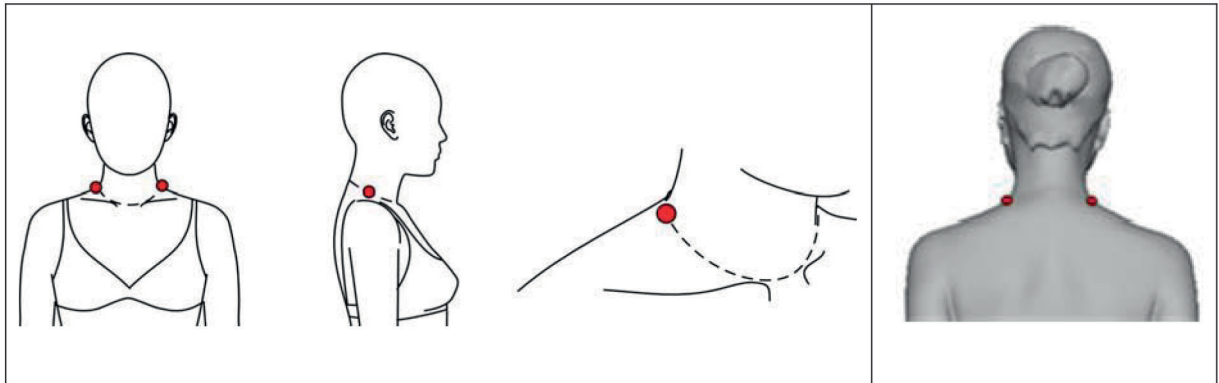


Figure 7 — Side neck point

3.1.8
front neck point

crossing point of the line connecting medial superior borders of the left and right clavicles and front median line

Note 1 to entry: See [Figure 8](#).

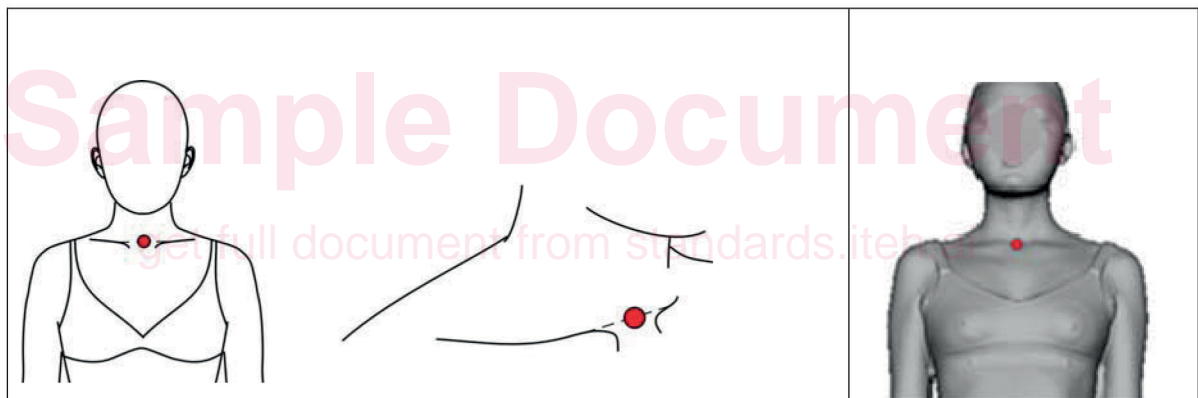


Figure 8 — Front neck point

3.1.9
'Adam's apple' point

most anterior point of the thyroid cartilage

Note 1 to entry: See [Figure 9](#).

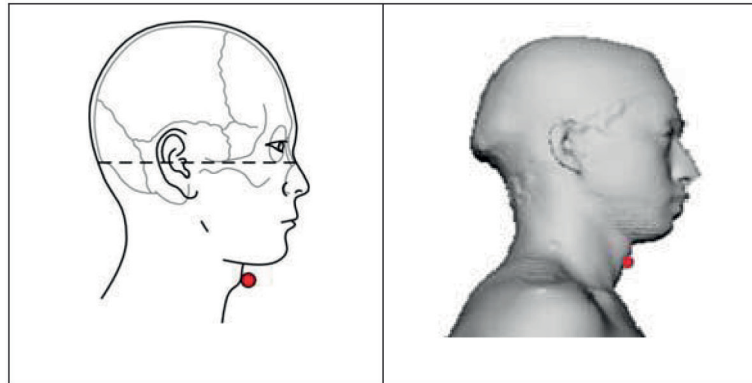


Figure 9 — 'Adam's apple' point

3.1.10

elbow point

most prominent point of the olecranon of ulna

Note 1 to entry: See [Figure 10](#).

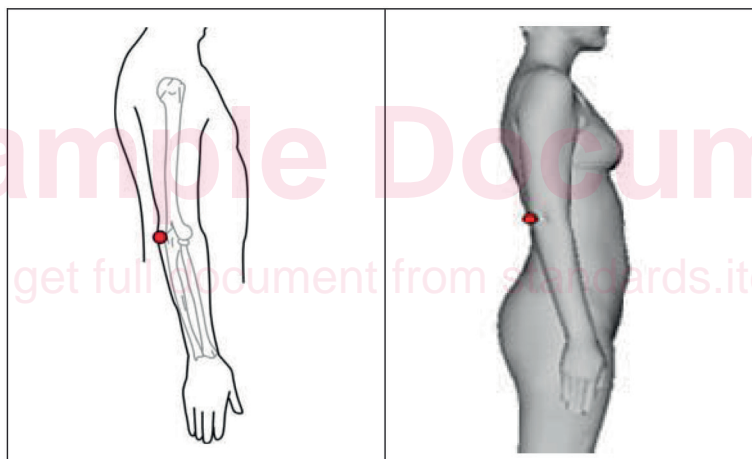


Figure 10 — Elbow point

3.1.11

bust point

most anterior point of the bust when wearing bra

Note 1 to entry: See [Figure 11](#).

Note 2 to entry: For information relating to type of bra to be worn, see [4.1.1](#).

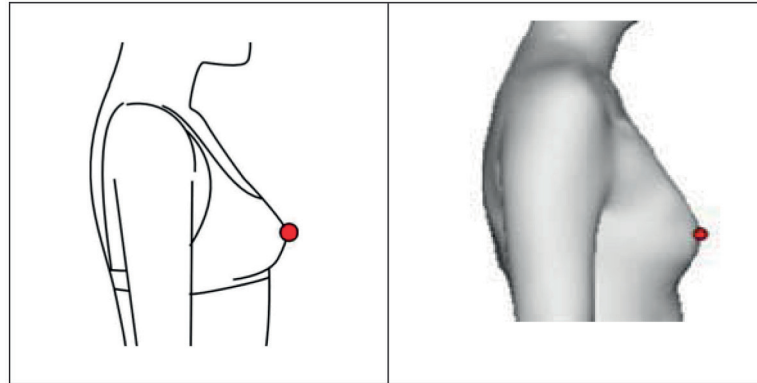


Figure 11 — Bust point

3.1.12

centre chest point

point on the union of the third and fourth sternbrae, in the midsagittal plane

Note 1 to entry: See [Figure 12](#).

Note 2 to entry: Identical to mesosternale in ISO 7250-1.

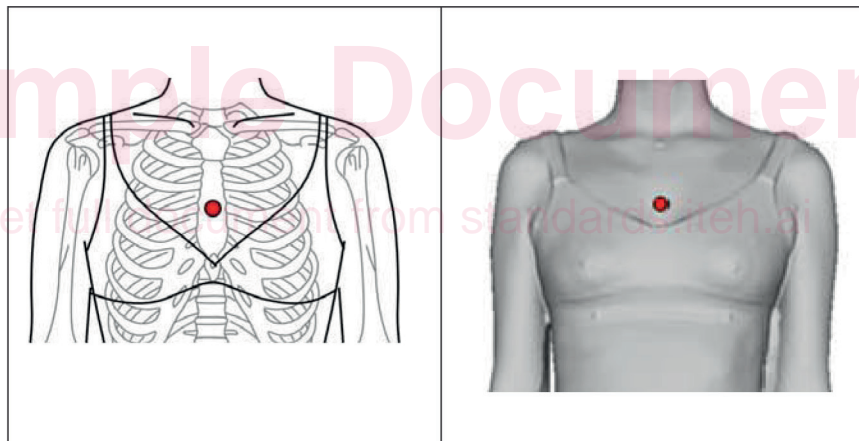


Figure 12 — Centre chest point

3.1.13

armpit front fold point

front fold point of the armpit on arm scye line determined using a scale placed under arm

Note 1 to entry: The level is decided as the upper edge of a rule placed under the armpit.

Note 2 to entry: See [Figure 13](#).