

Designation: D 5219 - 07

Standard Terminology Relating to Body Dimensions for Apparel Sizing¹

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1. Scope

1.1 This standard is a compilation of terminology related to the body dimensions for necessary apparel sizing. 1.2 For definitions of other textile terms, refer to Terminology D 123. 1.3 The terms are listed in alphabetical order regardless of whether they are horizontal or vertical measurements. 2. Referenced Documents Front Break-Point 2.1 ASTM Standards: ² D 123 Terminology Relating to Textiles 2.2 ISO Standards:³ ISO 3635 Size Designation of Clothes, Definitions and Waist **Body Measurement Procedures** ISO 8559 Garment Construction and Anthropometric Surveys-Body Dimensions Wris 3. Terminology 3.1 Anatomy: acromion, *n*—that part of the shoulder blade located at the end of the spine, which articulates with the collarbone. (See also shoulder joint.) (See Fig. 2.) **ankle**, *n*—the joint between the foot and the lower leg. (See Fig. 1.) **armpit**, *n*—the hollow under the junction of the arm and the shoulder. (See Fig. 1.) back-break point, n-the location on the back of the body where the arm separates from the body. (See Fig. 2.) cervicale, *n*—the prominent point of the seventh or lowest neck vertebra at the back of the body. Ankle DISCUSSION-The cervicale is identified by being more prominent when the head is bent forward; however, cervicale height measurements are made only when the head is erect. (See Fig. 2.) FIG. 1

crotch, *n*—the body area adjacent to the vertex of the included angle between the legs. (See Fig. 1.)

crown, *n*—the top of the head. (See Fig. 1.)

- **elbow,** *n*—the joint that articulates between the upper arm and the lower arm. (See Fig. 1.)
- **front-break point,** *n*—the location on the front of the body where the arm separates from the body. (See Fig. 1.)

hip, *n*—the laterally projecting region formed by the lateral

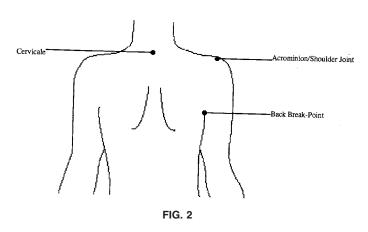
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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.



parts of the pelvis and the upper part of the femur together with the flesh covering them. (See Fig. 1.)

knee, *n*—the joint between the lower and upper leg. (See Fig. 1.)

shoulder joint, *n*—the juncture of the collarbone and the shoulder blade.

DISCUSSION—The outer end of the collarbone or clavicle pivots against the acromion which in turn pivots against the humerus or upper

arm bone in the arm. These bones form the shoulder girdle. (See also acromion.) (See Fig. 2.)

- **waist**, *n*—the part of the body at the location between the lowest rib and hip identified by bending the body to the side. (See Fig. 1.)
- wrist, *n*—the joint that articulates between the end of the lower arm and the hand. (See Fig. 1.)

3.2 Anthropometry:

body measurements, *n*—a standardized distance between two specified points on the human anatomy.

DISCUSSION—Body measurements generally are based on standardized values from statistical studies of large populations.

3.3 Body Measurements:

- across back shoulder width , n—the horizontal distance across the back from the top of one shoulder joint to the top of the other shoulder joint, taken with the arms down. (See Fig. 5.)
- **across front shoulder width,** *n*—the horizontal distance across the front from the top of one shoulder joint to the top of the other shoulder joint, taken with the arms down. (See Fig. 3.)

ankle girth, *n*—the maximum horizontal circumference of the

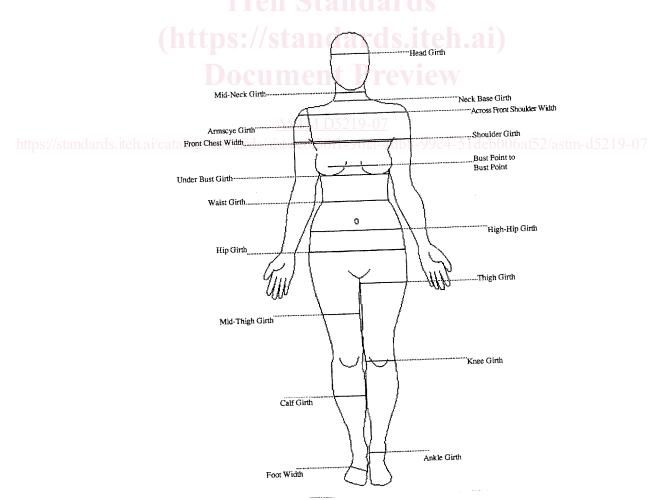
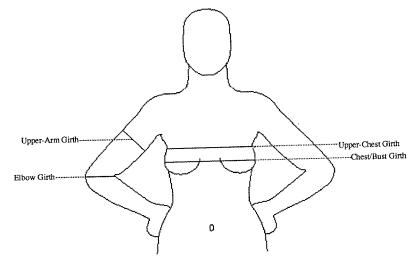
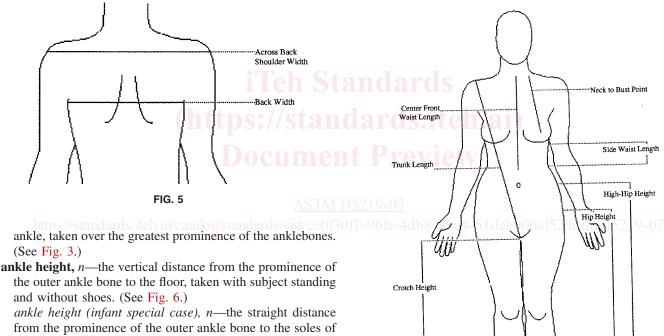


FIG. 3







from the prominence of the outer ankle bone to the soles of the feet, taken with subject lying down flat with legs extended and the foot positioned at $1.57 \text{ rad} (90^\circ)$ to the leg.

- **arm length**, *n*—the distance from the top of the shoulder joint along the outside of the arm over the elbow to the prominent wrist bone, taken with the arm bent (1.57 rad or 90°) and the hand placed on the hip. (See Fig. 7.)
- **armscye girth**, *n*—the circumference taken from the shoulder joint through the front break-point, the armpit, the back break-point and to the starting point, taken with the arms down. (See Fig. 3.)
- **back width,** *n*—the horizontal distance across the back from back break-point to back break-point over the shoulder blades, taken with the arms down. (See Fig. 5.)
- **body weight,** *n*—the weight as measured on a calibrated scale taken with the subject in undergarments.
- **bust point to bust point**, *n*—the horizontal distance from bust apex to bust apex, taken with the arms down. (See Fig. 3.)

lower leg, taken between the knee and the ankle. (See Fig. 3.)

calf girth, *n*—the maximum horizontal circumference of the

FIG. 6

Ankle Height

center back waist length, n—the distance from the cervicale to the center back waist level, taken along the spine (contour). (See Fig. 8.)

center front waist length, *n*—the distance from the center