



Standard Tables for Body Measurements for Plus Women's Figure Type, Size Range 14W–20W¹

This standard is issued under the fixed designation D6960/D6960M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

INTRODUCTION

These body measurement tables were developed from evaluation of data currently used in the apparel industry.

These tables were developed from data published by the U.S. Department of Commerce; the Caesar Study; the Size USA Study; current U.S. industry; and studies, scans, and documentation from Alvanon Inc.² These tables take into consideration plus women's figures at a standard height of 165 cm [5 ft 5 in.] (65 % of average U.S. population) taking into account the decrease and increase in body weight that shift a person from one size to another while this person does not gain in height. Also included is a definition of body type curvy or straight as applied to waist, high-hip, hip/seat, thigh, and mid-thigh girths that result in a different body shape (silhouette). Major evaluation was done and reviewing the incremental growth at different major body points has been addressed and defined identifying increase and decrease at different rates in specific areas: bust, waist, high-hip, and hip/seat. Additionally, to serve the industry better, incremental movement between sizes was reviewed ensuring smooth transition between sizes. To verify the proposed body measurements, a three-dimensional avatar was created in the plus women's size range 14W through 40W (curvy and straight) by Alvanon Inc. for a visual reference.

1. Scope

1.1 In these tables, body measurements of adult female plus women's figure type sizes 14W–40W are listed. Although these are body measurements, they can be used as a baseline in designing apparel for plus women in this size range when considering such factors as fabric type ease for body movement, styling, and fit.

1.2 These tables list body measurements for the complete range of plus women sizing.

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each

system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the standard.

1.4 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:³

D123 Terminology Relating to Textiles

D5219 Terminology Relating to Body Dimensions for Apparel Sizing

2.2 ISO Standard:

ISO 3635 Size Designation of Clothes, Definitions, and Body Measurement Procedures⁴

¹ These tables are under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.55 on Body Measurement for Apparel Sizing.

Current edition approved Oct. 15, 2016. Published November 2016. Originally approved in 2004. Last previous edition approved in 2004 as D6960-04 which was withdrawn January 2013 and reinstated in October 2016. DOI: 10.1520/D6960_D6960M-16.

² Caesar: Summary Statistics for the Adult Population (Ages 18-65) of the United States Of America, June 2002; Size USA North America Sizing Survey, 2004; 2000 CDC Growth Charts for the United States: Methods and Development, National Center for Health Statistics, Vital Health Stat, Series 11, No. 246, 2002; CDC Advance Data No. 361, 7/5/2005; and Anthropometry of Infants, Children's and Youths to Age 18 for Product Safety Design, May 31, 1977.

³ 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.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.