

Designation: D6960 - 04

StandardTable of Body Measurements Relating to Women's Plus Size Figure Type, Sizes 14W-32W¹

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1. Scope

- 1.1 This table lists body measurements of the adult female "plus" figure type, sizes 14W through 32W. Although these are body measurements, they can be used as a baseline in designing apparel for female figures in this size range when considering such factors as fabric type, desired ease for body movement, styling, and fit.
- 1.2 The values stated in either acceptable SI units or inch-pound units shall be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system must be used independently of the other, without combining values in any way.

2. Referenced Documents

2.1 ASTM Standards:²

D123 Terminology Relating to Textiles

D5219 Terminology Relating to Body Dimensions for Apparel Sizing

2.2 ISO Standards:

ISO 3635-1981 Size Designation of Clothes, Definitions and Body Measurement Procedure³

ASTM D6

ISO 8559 Garment Construction and Anthropometric Surveys-Body Dimension³

3. Terminology

3.1 *Definitions*—For definitions relating to body dimensions, refer to Terminology D5219. For definitions of other textile terms used in this table, refer to Terminology D123.

4. Significance and Use

4.1 The use of the body measurement information given in Table 1 will enable manufacturers to develop patterns and

garments that are consistent with the current anthropometric characteristics of the population of interest.

- 4.2 This table should in turn reduce or minimize consumer confusion and dissatisfaction related to apparel sizing.
- 4.3 For further information, refer to ISO 3635 and ISO 8559.

5. Apparatus

- 5.1 All apparatus are calibrated for accuracy.
- 5.2 *Tape Measure*, dimensionally stable and approximately 15 mm (½ in.) wide and graduated accurately in mm (½ in.) increments.
- 5.3 *Plastic Goniometer*, to measure the degree of shoulder slope.
 - 5.4 Scale, calibrated for standard body weight.

6. Procedure

- 6.1 General Procedure:
- 0-6.1.1 Verify that measuring devices and scales are within calibration.
- 6.1.2 For all vertical and most horizontal measurements, measure the body while standing erect without shoes and with feet approximately 15 cm (6 in.) apart.
- 6.1.3 Take all body measurements over regular undergarments normally worn by the subject.
- 6.1.4 Take all measurements except torso circumferences, height, and weight from the same side of the body for consistency.
- 6.1.5 Refer to Terminology D5219 for the location of all points to be measured (see Section 2).
 - 6.2 Body Measurements:
- 6.2.1 Across Back Shoulder—Measure 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.
- 6.2.2 *Ankle Girth*—Measure the maximum horizontal circumference of the ankle, taken over the greatest prominence of the anklebones.
- 6.2.3 *Ankle Height*—Measure the vertical distance from the prominence of the outer ankle bone to the floor, taken with subject standing and without shoes.

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.

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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.

TABLE 1 Standard Table of Body Measurements for Women's Plus Size Figure Type, Sizes 14W-32W

Size	14W	16W	18W	20W	22W	24W	26W	28W	30W	32W
			Girth	n Measureme	nts, in. ^A					
Bust Girth	391/2	411/2	431/2	451/2	471/2	491/2	51½	531/2	551/2	57½
Waist Girth	311/2	331/2	351/2	371/2	391/2	411/2	431/2	451/2	471/2	491/2
High-Hip Girth	40	42	44	46	48	50	52	54	56	58
Hip Girth	411/2	431/2	451/2	471/2	491/2	511/2	531/2	551/2	571/2	591/2
Mid-Neck Girth	151/4	15%	16	163/8	16¾	17½	171/2	177/8	181/4	18%
Neck Base Girth	153/4	161/4	163/4	171/4	173/4	181/4	183/4	191/4	193/4	201/4
	171/4	17 ⁷ /8		191/8	193/4	203/8	21	21%	221/4	20 ⁷ / ₈
Armscye Girth			181/2							
Upper-Arm Girth	12½	131/8	13¾	143/8	15	15%	161/4	167/8	17½	181/8
Elbow Girth	10½	107/8	111/4	115/8	12	123/8	123/4	131/8	131/2	137/8
Wrist Girth	61/2	65/8	63/4	67/8	7	71/8	71/4	73/8	71/2	7 5/8
Thigh Girth (Max)	251/4	261/2	273/4	29	301/4	31½	323/4	34	351/4	36½
Thigh Girth (Mid)	213/4	23	241/4	251/2	26¾	28	291/4	301/2	313/4	33
Knee Girth	16	161/2	17	171/2	18	181/2	19	191/2	20	201/2
Calf Girth	161/4	163/4	171/4	173/4	181/4	183/4	191/4	193/4	201/4	203/4
Ankle Girth	10	101/4	101/2	103/4	11	111/4	111/2	113/4	12	121/4
Trunk Length (Total Vertical)	63	641/2	66	671/2	69	701/2	72	731/2	75	761/2
Crotch Length (Total)	281/2	291/4	30	303/4	31½	321/4	33	333/4	34½	351/4
Crotch Length (Total)	20 72	29./4		al Measurem		3274	33	33%4	34 72	35 74
Cervicale Height	57	573/8	573/4	581/8	58½	587/8	591/4	595/8	60	603/8
Waist Height	403/4	40 ⁷ /8	41	411/8	411/4	41%	411/2	415/8	413/4	417/8
High-Hip Height	36%	36½	365/8	363/4	367/8	37	371/8	371/4	373/8	37½
Hip Height	30 ⁴⁸	321/4	32%	321/2	30%	32¾	37 //8 32 ⁷ /8	33	331/8	331/4
Crotch Height	30	30	30	30	30	30	30	30	30	30
Knee Height	181/4	181/4	181/4	181/4	181/4	181/4	181/4	181/4	181/4	181/4
Ankle Height	3	3	3	3	3	3	3	3	3	3
Char Back Waist Length	161/4	161/2	16¾	17	171/4	171/2	173/4	18	181/4	181/2
Char Front Waist Length	151/4	15½	15¾	16	161/4	16½	16¾	17	171/4	171/2
					urements, in.					
Across Back Shoulder	151/4	15¾	161/4	16¾	171/4	17¾	181/4	18¾	191/4	19¾
Back Width	143/4	151/4	153/4	161/4	163/4	171/4	173/4	181/4	18¾	191/4
Front Chest Width	13¾	141/4	143/4	151/4	153/4	161/4	163/4	171/4	173/4	181/4
Shoulder Length	47/8	415/16	5	51/16	51/8	53/16	51/4	55/16	53/8	57/16
Shoulder Slope (degrees)	24	24	24	_ 24	24	_ 24	24	24	24	24
Arm Length Shldr To Wrist	23	233/16	233/8	239/16	233/4	2315/16	241/8	245/16	241/2	2411/16
Arm Length Shldr To Elbow	131/2	135/8	133/4	137/8	14	141/8	141/4	143/8	141/2	145/8
Bust Point to Bust Point	8	81/4	81/2	83/4	9	91/4	91/2	93/4	10	101/4
Neck to Bust Point	11	113/8	113/4	121/8	121/2	127/8	131/4	13%	14	14%
Scye Depth	8	81/8	81/4	83/8	81/2	85/8	83/4	87/8	9	91/8
Size	14W	16W	18W Girth	20W Measuremen	22W	24W	26W	28W	30W	32W
Bust Girth	100.3	105.4	110.5	115.6	120.7	125.7	130.8	135.9	141.0	146.1
Waist Girth	80.0	85.1	90.2	95.3	100.3	105.4	110.5	115.6	120.7	125.7
High-Hip Girth	101.6	106.7	111.8	116.8	121.9	127.0	132.1	113.0	142.2	147.3
9 IIII 198 // STATICIATUS II CIT										151.1
Hip Girth	105.4	110.5	115.6	120.7	125.7	130.8	135.9	141.0	146.1	
Mid-Neck Girth	38.7	39.7	40.6	41.6	42.5	43.5	44.5	45.4	46.4	47.3
Neck Base Girth	40.0	41.3	42.5	43.8	45.1	46.4	47.6	48.9	50.2	51.4
Armscye Girth	43.8	45.4	47.0	48.6	50.2	51.8	53.3	54.9	56.5	58.1
Upper-Arm Girth	31.8	33.3	34.9	36.5	38.1	39.7	41.3	42.9	44.5	46.0
Elbow Girth	26.7	27.6	28.6	29.5	30.5	31.4	32.4	33.3	34.3	35.2
Wrist Girth	16.5	16.8	17.1	17.5	17.8	18.1	18.4	18.7	19.1	19.4
Thigh Girth (Max)	64.1	67.3	70.5	73.7	76.8	80.0	83.2	86.4	89.5	92.7
Thigh Girth (Mid)	55.2	58.4	61.6	64.8	67.9	71.1	74.3	77.5	80.6	83.8
Knee Girth	40.6	41.9	43.2	44.5	45.7	47.0	48.3	49.5	50.8	52.1
Calf Girth	41.3	42.5	43.8	45.1	46.4	47.6	48.9	50.2	51.4	52.7
		26.0						29.8		
Ankle Girth	25.4		26.7	27.3	27.9	28.6	29.2		30.5	31.1
Trunk Length (Total Vertical)	160.0	163.8	167.6	171.5	175.3	179.1	182.9	186.7	190.5	194.3
Crotch Length (Total)	72.4	74.3	76.2	78.1 al Measureme	80.0	81.9	83.8	85.7	87.6	89.5
Comingle Height	144.0	145.7				140.5	150.5	151.4	150.4	150.4
Cervicale Height	144.8	145.7	146.7	147.6	148.6	149.5	150.5	151.4	152.4	153.4
Waist Height	103.5	103.8	104.1	104.5	104.8	105.1	105.4	105.7	106.0	106.4
High-Hip Height	92.4	92.7	93.0	93.3	93.7	94.0	94.3	94.6	94.9	95.3
Hip Height	81.6	81.9	82.2	82.6	82.9	83.2	83.5	83.8	84.1	84.5
Crotch Height	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
Knee Height	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
Ankle Height	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
Char Back Waist Length	41.3	41.9	42.5	43.2	43.8	44.5	45.1	45.7	46.4	47.0
Char Front Waist Length	38.7	39.4	40.0	40.6	41.3	41.9	42.5	43.2	43.8	44.5
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Across Back Shoulder	38.7	40.0	41.3	42.5	43.8	45.1	46.4	47.6	48.9	50.2
Back Width	37.5	38.7	40.0	41.3	42.5	43.8	45.1	46.4	47.6	48.9
Front Chest Width	34.9	36.2	37.5	38.7	40.0	41.3	42.5	43.8	45.1 12.7	46.4
Shoulder Length	12.4	12.5	12.7	12.9	13.0	13.2	13.3	13.5	13.7	13.8
Shoulder Slope (degrees)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Arm Length Shldr To Wrist	58.4	58.9	59.4	59.8	60.3	60.8	61.3	61.8	62.2	62.7