Measurements and Materials

Necessary Body Measurements
Types of Fabrics
Adhesives
Circumference Measurements

- Head
- Neck
- Base of Neck
- Over Chest/Bust
- Chest/Bust
- Ribcage
- Waist
- Abdomen – 3” below waist
- Hip – Fullest part 7”-9” below waist
- Armscye
- Bicep
- Wrist
- Thigh
- Above the knee
- Below the knee
- Calf
- Ankle
Horizontal Measurements

• Ear to Ear
• Shoulder Seam
• Across Shoulder – Front and Back
• Bust Point to Bust Point
• Waist – Front and Back
• Abdomen- Front and Back
• Hip – Front and Back
Vertical Measurements

- Forehead to Nape
- Center Neck to Waist – Front and Back
- ArmPit to Waist
- Shoulder to Bust Point
- Shoulder to Waist
- Outside Center Back to Shoulder
- Outside Shoulder to Elbow
- Outside Shoulder to Wrist
- Shoulder to Elbow Bent
- Inside Arm to Wrist
- Armpit to Waist
- Shoulder to bust point
- Shoulder to below bust
- Shoulder to waist

- Center Waist to Floor Front and Back
- Inseam
- Girth
- Crotch Depth

- Center Neck to Floor Front and Back
Measurement Forms

Example #1

Example #2
More Forms

Example #3

![Male Measurements Sheet](image)

Example #4

![Female Measurements Sheet](image)
More Forms

Example #5

Female Measurements

- Throat
- Neck
- Shoulder
- Arm Pit
- Arm Length
- Bicep
- Forearm
- Wrist
- Waist To Hip Bone
- Waist To Pull Hip
- Hip Bone
- Full Hip
- Thigh
- Above Knee
- Below Knee
- Calf
- Ankle
- Inseam Width
- Inseam
- Dress Length
- To Floor
- To Ankle
- To Below Knee

Example #6

Male Measurements

- Name
- Character Line
- Phone
- Date
- Size
- Color
- Pants
- Short
- Socks
- Tights
- Leotard
- Hand
- Hair Color
- Allergies
- Notes
- Shoes
- Length
- Neck To Floor
- Shoulder To Elbow
- Elbow To Wrist
- Wrist To Floor
- One Shoulder Length
- Neck To Waist
- Neck To Shoulder
- Arm Pit To Wrist
- Mid Shoulder To Chest Level
- Top Of Shoulder Line To Waist
-
Measurement Locations

General

Horizontal

Taking Measurements
- Place the metal tip end of the tape measure at one reference point and extend to the next reference point for each measurement.

Record measurements on the Model Measurement form or Chart or the Personal Measurement Chart found at the back of the text.

Numbers in parentheses correspond with those on the chart.
- All measurements are taken from center lines to the side seam.
- The same half of the front and back of the form is measured.

HORIZONTAL BALANCE LINE (HBL)

Figures 1, 2, and 3
- Measure up from the floor to the pin mark (at center front) (Figure 1).
- Use this measurement to measure up from the floor and pin mark center back and side seams. Pin mark at princess lines. Back seam measurement (Figure 2 and 3).
- Draw a line around the hip touching each of the pin marks, or use adhesive tape to mark the hipline. The standard hip depth is 6 to 7 inches down from the center front waist for juniors and petites, 8 to 9 inches down for misses size.

Personal Fit. Follow the instructions very carefully and double-check. If incorrect, the hemline of the skirt will not hang parallel with the floor.

CIRCUMFERENCE FOR FORM AND MODEL MEASUREMENTS

Figures 4 and 5
- Bust (1). Around bust point and back.
- Waist (2). Around waist.
- Abdomen (3). Three inches below waist.
- Hip (4). Measure widest area with tape parallel with floor. Pin to mark hip level at center front (rounded to an 8 point).
Measurement Locations

**Horizontal**

**Figure 7**
- Back neck (12): Center back neck to shoulder 3
  inches.
- Shoulder tip to center bust neck.
- Center back neck to shoulder 3
  inches above the mid-shoulder (shoulder head mark).
- Bust line (17): Center front waist to bust line, at
  bust point, ending 1 inch below armhole at side seam.
- Bust point (19): Waist line (19): Center bust waist to side
  waist seam.
- Darts placement (20): Center bust waist to bust line.
- Abdomen arc (22): Center back waist to side seam,
  starting 3 inches down from waist.
- Hip arc (23): Center hip to side seam on HIP line.
- Hip depth (23): Center hip waist to HIP line.
- Measurement can be taken across the model from one
  landmark to the other, then divided in half and recorded, if
  the center lines of the front and back are distinctly
  centered, the measurements are from the center line to
  the side seams of the front and back bodies.

**Neck Circumference**
- Measure around the upper neck, divide by 3, and record in
  space #12.

**Figure 8a**
- Measurement for Personal Fit
- Figures 8a, b

**Vertical**

**Figure 10**
- Side length (11): Mark below armhole at side
  seam to side waist.
- Shoulder length (12): Shoulder tip to neck.
- Shoulder length (13): Shoulder tip to neck.
- Side depth (14): Side waist to HIP, on side of
  arm being measured.
- Bust radius (15): Measure from bust point ending under
  bust line, ending at line below.
- Center bust waist to side waist seam.
- Abdomen arc (20): Center bust waist to bust line.
- Abdomen arc (22): Center back waist to side seam,
  starting 3 inches down from waist.
- Hip arc (23): Center hip to side seam on HIP line.
- Hip depth (23): Center hip waist to HIP line.
- Personal fit: Asymmetric
  - Shoulder line (12): Measure on right and left sides.
  - Shoulder lines (12): Center line at the
    shoulder tip to mark.
  - Bust depth (15): Shoulder tip to bust point.

**Figure 11 and 16**
- New Strap Measurement
  - Place metal tip of the measuring tape at center of
    shoulder/mack to bottom of the wrist band at the side
    seam and record.
Creation of Fabric

• Fiber
• Yarn
• Fabric
Types of Fiber

- Natural or Organic
  - **Linen**- Stalks of Flax Plant
  - **Cotton**- Blossom of Plant
  - **Bamboo**- Stalks of Plant
  - **Hemp**- Stalks of Plant
  - **Wool**- Sheep
  - **Silk**- Cocoon of the Bombyx Mori Moth

- Synthetic or Inorganic
  - **Rayon**- Wood Pulp and Chemicals
  - **Acetate**- Chemicals
  - **Nylon**- Chemicals
  - **Polyester**- Chemicals
  - **Acrylics**- Chemicals
  - **Spandex**- Chemicals
  - **Metallic**- Metal or metal coated plastic fiber
  - **Polypropylene**- Chemicals
Types of Fabric

• **Woven** - Yarns that are interlocked at right angles
• **Knitted** - Yarns that are interlocking loops.
• **Felted** - Fibers that are bonded together with moisture, heat and pressure
• **Knotted** - Yarns that are connected with knots
Adhesives

• http://www.beaconadhesives.com/cchart.htm
Fusible Web
# Fusible Web Brand Comparisons

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Ease of Use</th>
<th>Amount of Fraying (1 is no fraying, 10 is a lot of fraying)</th>
<th>Texture Change (1 is not stiff, 10 very stiff)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZ-Steam</td>
<td>Good</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>EZ-Steam II</td>
<td>Frustrating to get the paper off before the final fuse</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>Wonder Under</td>
<td>Good</td>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>Heavy Duty Wonder Under</td>
<td>Web fell off of the paper before I ironed</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Heat n Bond Lite</td>
<td>Good</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Heat n Bond Ultra Hold</td>
<td>Good</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>Lite Steam-a-Seam II</td>
<td>Good</td>
<td>8</td>
<td>6</td>
</tr>
</tbody>
</table>
Sources

• http://www.beaconadhesives.com/cchart.html
• https://sweetbriarsisters.com/blog/heres-best-fusible-web/