



**WARM WINDOW INSULATED LINING**

- A - Drapery lining
- B - High density hollow polyester fiber
- C - Polyethylene vapor barrier
- D - Metalized film needled with poly fiber
- E - Cover fabric



*The Butterfly*  
**Warm Window®**  
 Insulated Shade System

*The Stage Coach*  
**Warm Window®**  
 Insulated Shade System

The Butterfly and the Stage Coach Warm Window shades are very similar in construction and we will go through both together. The only difference between these shades is how the shades are held open. Both shades are quick solutions for drafty windows around the house, in campers and boats. The Butterfly and The Stage Coach Warm Windows offer a decorative flair. You have the option of using an outside or hybrid mount. Magnets within the seams of the shade and along the wall provide a secure energy efficient seal and the shades are made functional with a tie or tabs achieving the Butterfly look or the Stage Coach look.

Before you begin you will need the following tools, supplies and measurements. Please read through the instructions completely before starting your project.

**Tools:**

- Measuring Tape
- Sharp scissors
- T-Square & Yard Stick
- Pencil
- Sewing Machine or Iron
- Staple Gun

**Supplies:**

- Hook & Loop Tape
- Warm Window Fabric
- Cover Fabric
- Thread or Steam-A-Seam 1/2" Tape
- 1" x 2" Board for Mounting
- Magnetic Strips & Continuous Magnetic Tape (if desired)
- Weight Bar (if desired)

**Measurements:**

- Measure Window Opening
- Measure for Additional Length
- Measure for Additional Width

Key - WW = Warm Window Fabric      FW = Finished Width      FL = Finished Length

# STEP 1 - MEASURE YOUR WINDOW

The Butterfly and Stage Coach Warm Window shades can be constructed using an outside or hybrid mount. Accurately measuring your window opening and deciding if you would like your finished shade to extend past the window's opening are the keys to determining your finished shade length ( FL ) and finished width ( FW ).

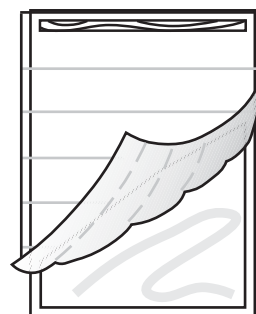
Record the distance from left to right across the top of the window opening and then the bottom of the window opening to determine the width. If these measurements don't match exactly, your window is not square and you will use the larger measurement. Record the distance from the top of the window opening to the bottom of the right side and then the left side to determine the length again using the larger measurement if necessary.

The finished shade must extend at least 3/4" all the way around the window opening allowing for the magnetic edge seal (adding 1 1/2" to the FW and 1 1/2" to the FL) but may extend farther depending on the location of trim and your mounting preference. The bottom of the shade can rest on the sill or may extend farther than the window opening if the sill is flush with the wall. The top of the shade may be any distance above the window or within the window opening that you desire. Determine your shade's FL and FW by adding any additional width and length to the window opening measurements taking your mounting method and window considerations into account.



**Outside Mount**

The mounting board is placed above the window opening. The shade extends past the window opening on both sides and the top. It may extend past the bottom or rest on the sill.



**Hybrid Mount**

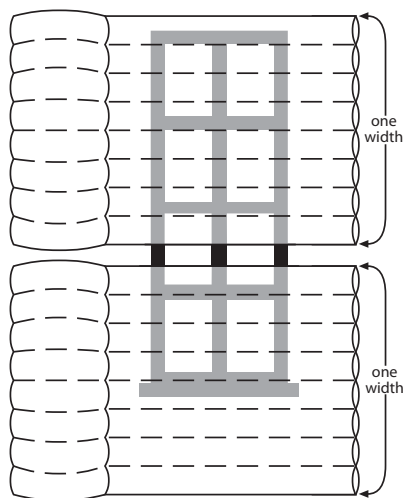
The mounting board is placed inside the window opening. The shade extends past the window opening on both sides and the top. It may extend past the bottom or rest on the sill.

## STEP 2 - CUT YOUR FABRICS

The WW fabric is cut to the exact dimensions of the finished shade plus 4" that will be used to fold over the mounting board. Additional cover fabric is required for the seams on the sides and the hems at the top and bottom of the shade. Depending on the size of your finished shade, you may need to piece together the WW fabric or the cover fabric. Two or more widths are easily joined together at the channel lines when covering taller windows. Piecing cover fabric is also a simple process just remember if you're using a printed fabric you will need to make sure the pattern lines up. As always - measure twice - cut once!

### PIECING WARM WINDOW FABRIC FOR TALL WINDOWS

Cut two or more widths of WW fabric a few inches longer than the FW of the shade. Once the WW fabric is pieced, you will cut it to the exact dimensions of your finished shade.



**Sewing Method:** Align the WW fabric lengths together at the outer most channel line with the drapery fabric sides together and pin. Machine stitch through all layers directly on the channel line. Using a walking foot will help as the fabric will be bulky and holding the fabric taut in front and behind the needle will also help prevent puckering. Trim to 1/4".

**No-Sew Method:** While there is no risk of overheating the Steam-A-Seam 2 it is possible to pucker or shrink the polyethylene vapor barrier. You may want to experiment with a scrap piece of WW fabric to adjust the time and temperature accordingly. Peel and stick a strip of 1/2" Steam-A-Seam 2 to the outer most channel line on the drapery lining side of the WW fabric. Layer the other width drapery lining sides together at the channel line finger pressing for a temporary bond. Using plenty of steam, fuse the widths together following the instructions on the Steam-A-Seam 2 packaging. Trim the bonded drapery lining to the edge of the bond - 1/2" from the channel line and trim all of the other layers to 1/4" from the channel line.



### Cut the WW Fabric

Starting with the exact dimensions of the finished shade (to include at least 3/4" past the window opening on all sides - a total of 1 1/2" for the width and 1 1/2" for the length to allow for the magnetic edge seal as well as any additional width and length desired to clear molding or trim PLUS 4" added to the FL. The 4" will be used to roll over the mounting board at the top of the shade. Using a carpenter's square or a T-square align with channel line and mark a straight line the entire width of the WW fabric where you will trim creating a squared edge. From this edge measure to the FW, mark and cut. Mark and cut the FL starting at a full 4" channel line.

### Cut the Cover Fabric

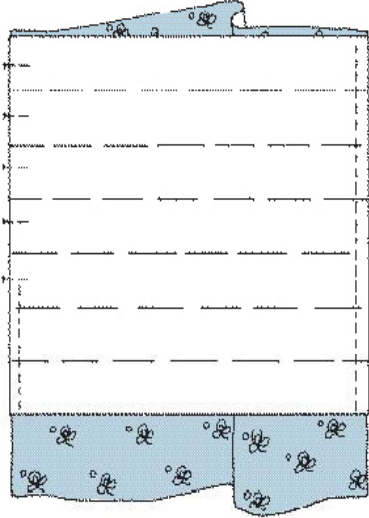
The cover fabric is cut wider and longer than the finished dimensions of the shade to allow for the bottom hem and seams. Square off the cover fabric using a T-square or the carpenter's square. Starting with the finished dimensions of the shade add 2 1/2" to the width and add 12" to the length. If piecing the cover fabric is necessary, sew using a 1/2" seam allowance or use Steam-A-Seam 2 fabric fusing web matching patterns when needed. Once pieced, square off, mark and cut.

"Warm Window satisfies both my husband and myself;  
 He likes the savings on the heating bill and I like shopping  
 for all the gorgeous fabrics!"

Jackie Trute, Ravenna, MI

## STEP 3 - CREATE THE SEAMS & BOTTOM HEM

Create the seams for the right and left sides of the shade. Lay the WW fabric drapery lining side up and layer the cover fabric right side down aligning the edges of cover fabric with the edges of the WW fabric. The cover fabric will align evenly with the Warm Window fabric at the top of the shade and extend 8" at the bottom. The cover fabric will not lay flat in the middle as it is 2 1/2" wider than the WW fabric. This excess is taken up when the shade is turned right side out.



### JOIN THE SIDE SEAMS - BUTTERFLY & STAGECOACH WARM WINDOW

**Sewing Method:** Pin cover fabric to the WW fabric. Using a half inch seam allowance sew a straight line making sure to catch all layers. A walking foot will help as this will be bulky. If a walking foot is not available holding the fabrics taut in front and behind the needle will help.

**No Sew Method:** Peel and stick the 1/2" wide Steam-A-Seam 2 fabric fusing web along the edge of the WW fabric. Finger press the cover fabric matching the edge to the edge of the WW fabric. Using a household steam iron fuse the cover fabric to the WW fabric. While there is no risk of overheating the Steam-A-Seam 2 it is possible to pucker or shrink the polyethylene vapor barrier. You may want to experiment with a scrap piece of WW fabric to adjust the time and temperature accordingly.

**Stick the 3.5" self adhesive magnetic strips within the 1/2" seam allowance centered in between every channel line. Turn the shade right side out. Press flat to set the side seams.**



### BOTTOM HEM - STAGECOACH WARM WINDOW

**Sewing Method:** Lay the shade front side down. If you will extend your shade past the window opening you will stick a continuous length of self adhesive magnetic tape across the bottom edge of the Warm Window fabric. We will turn up the 8" of cover fabric at the bottom of the shade to create the bottom hem. Fold the excess fabric in half to the bottom of the shade and press setting a crease. Fold up again covering the first full 4" channel. Pin and stitch down across the top. If your shade will rest on the window sill, you can slip a weight bar into the bottom hem. This will help with energy efficiency and keep the closed shade flat and even. Close the sides using a slip stitch.

**No Sew Method:** Lay the shade front side down. If you will extend your shade past the window opening you will stick a continuous length of self adhesive magnetic tape across the bottom edge of the Warm Window fabric. Fold the excess cover fabric up to the WW fabric and iron to create a crease. Fold up again so that the hem covers the first full 4" channel. Iron again to create a crease. Unfold exposing the top of the hem to be fused to the WW fabric. Peel and stick 1/2" Steam-A-Seam 2 across the top of the hem and the sides of the hem. If your shade will rest on the window sill, you can slip a weight bar into the bottom hem before fusing. This will help with energy efficiency and keep the closed shade flat and even. Finger press in place and fuse permanently following the instructions on the Steam-A-Seam 2 packaging.



## BOTTOM HEM - BUTTERFLY WARM WINDOW

**Sewing Method:** Lay the shade front side down. We will turn up the 8" of cover fabric at the bottom of the shade to create the bottom hem. Fold the excess fabric in half to the bottom of the shade and press setting a crease. Fold up again covering the first full 4" channel. Pin and stitch down across the top. Close the sides using a slip stitch.

**No Sew Method:** Lay the shade front side down. Fold the excess cover fabric up to the WW fabric and iron to create a crease. Fold up again so that the hem covers the first full 4" channel. Iron again to create a crease. Unfold exposing the top of the hem to be fused to the WW fabric. Peel and stick 1/2" Steam-A-Seam 2 across the top of the hem and the sides of the hem. Finger press in place and fuse permanently following the instructions on the Steam-A-Seam 2 packaging.

## STEP 4 - PREPARE MOUNTING BOARD



Cover your mounting board with extra fabric using a staple gun - wrap it like a present.



Line up the covered mounting board with the top channel line so that the board is at the top of the FL.



Fold the top of the shade around the mounting board and staple in place using a staple gun.

## STEP 5 - MAKE 2" TIES

Consider where you would like your shade to sit when tied up and adjust your tie length accordingly. Cut cover fabric 5" x the length you have determined for your shade. You will need two ties for the Butterfly Warm Window shade (one for the front of the shade and one for the back). At least four or more ties are needed for the Stage Coach Warm Window shade depending on the width of your finished shade. The ties used in front should be 2 - 3 inches shorter than the ties in the back. If you plan to tie up your shade with a bow consider the additional length required for the bow when cutting the length of your tie. If using hook & loop tape to secure your shade open fuse hook tape to the sewn end of one tie and the loop tape to the sewn end of the corresponding tie.

### Sewing Method:



Fold the fabric in half right sides together. Sew together using 1/2" seam allowance.



Press the seam open using a yard stick placed through the sewn tie to prevent creases.



Sew across the open seam on one end. Turn right side out. Press flat.

"When it's 30 degrees below zero here in Montana, I can sit right next to the window and not freeze!

Warm Window is worth it's weight in gold."

Lois DeFord, Helena, MT

## STEP 5 - MAKE 2" TIES Continued

### No Sew Method:

Consider where you would like your shade to sit when tied up and adjust your tie length accordingly. Cut cover fabric 5" wide x the length you have determined for your shade. You will need two ties for the Butterfly Warm Window shade (one for the front of the shade and one for the back). At least four or more ties are needed for the Stage Coach Warm Window shade depending on the width of your finished shade. The ties used in front should be 2 - 3 inches shorter than the ties in the back. If you plan to tie up your shade with a bow consider the additional length required for the bow when cutting the length of your ties. If using hook & loop tape to secure your shade open fuse hook tape to the sewn end of one tie and the loop tape to the sewn end of the corresponding tie.

Place a strip of 1/2" Steam-A-Seam 2 on the right side of the cover fabric along the length of one entire edge. Place another strip of 1/2" Steam-A-Seam 2 across one end along the edge on the right side of the fabric. Fold in half lengthwise aligning the edges. The tie should be inside out. Fuse the entire length and end just on the 1/2" seam allowance you have created. Try not to press the fold causing a crease. Turn right side out. Iron flat with the seam in the middle of the back side of the tie.

## STEP 6 - ATTACH THE TIES



The ties for the Butterfly style shade are centered and stapled to the mounting board with the shorter tie in front and the longer tie in back. Staple the front tie over the back tie.



The ties for the Stage Coach style shade are stapled approximately 6" in from the ends of the shade with additional ties spaced evenly across as determined by the width of the shade.

## STEP 7 - MOUNTING THE SHADE

If you chose the outside mount (pictured below), the mounting board will be placed above the window opening and fastened to the wall using 4" screws. The 2" side of the board will be flush against the wall. Make sure the ties that will be on the back side of the shade are hanging down before securing the shade to the wall. If you chose the hybrid mount, you will fasten the shade to the inside of the window frame. The 2" side of the board will be flush with the inside of the window frame. The ties should hang down freely. Screws should be placed 2" - 3" in from each end and for wider shades evenly placed to support the weight of the shade.



Make sure the ties are hanging correctly before fastening the shade to the wall. Outside mount is pictured above.



Mounted and tied Butterfly Warm Window Shade.



Mounted Stage Coach Warm Window Shade. Place magnetic tape along the right and left sides of the shade and along the bottom if desired.