

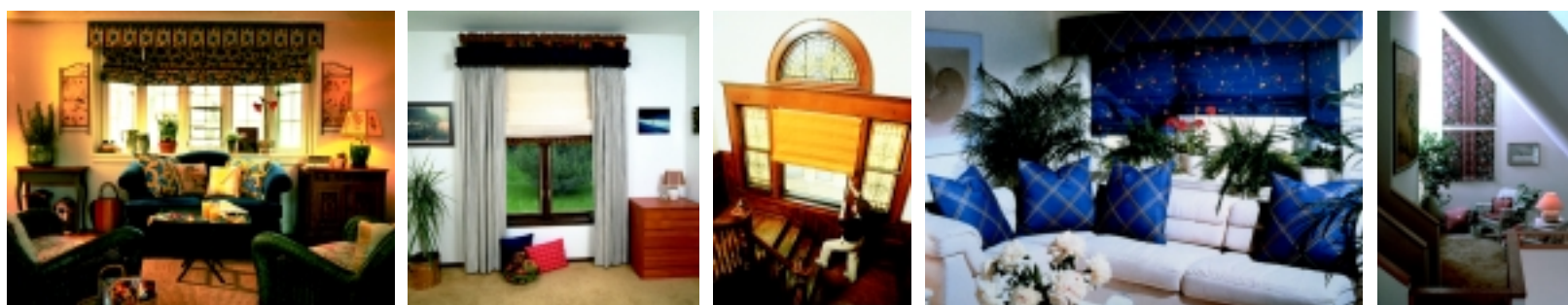
Shades for Comfort

Warm Window®
Insulated Shade System

Revised



SIX EASY STEPS TO BEAUTIFUL WARM WINDOW® ENERGY SAVING SHADES





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Shades for Comfort - Revised
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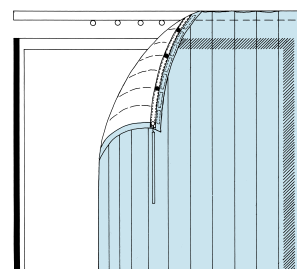
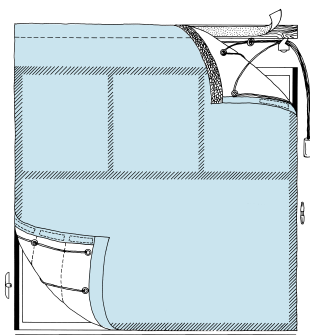
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Why a Warm Window®? Beautiful Energy

Add comfort and style to your home

Choosing an attractive window treatment that complements your décor is one of the most important decisions you can make for the rooms in your home. With the Warm Window insulated shade system, you cover the insulating Warm Window fabric with your choice of decorator fabric to create the desired look. Then complete the room by adding coordinating valances, cornice boards, or swags, as well as coordinating tiebacks if needed and pillows for added decorating pizzazz.

Roman shades are the most popular and easiest window covering to make with the Warm Window system. They have a crisp tailored appearance that complements any décor and they are simple to make. Because the Warm Window fabric is designed with 4"-wide quilted channels, crisp pleats form when the shade is raised.

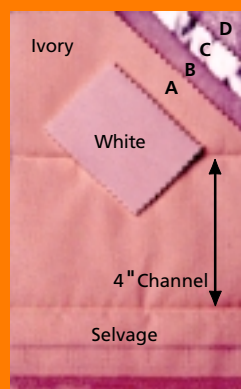
Side-draw shades with Warm Window are the perfect solution for sliding glass doors, French doors, and large windows. As with a drapery, the shade can be drawn to the left or right or to both sides from the center. When closed, the shade seals magnetically at the top as well as on each side.

Warm Window helps keep your home warmer in winter and cooler in summer, saving energy.....Beautifully.



The components of the shade system

- Insulated fabric
- Your decorator cover fabric
- Magnetic edge seal



The four layer insulated fabric

- A Warm & Dry™ moisture resistant lining
- B High density needled hollow fibers
- C Reflective polyethylene vapor barrier
- D Metallized Mylar® with needled air-trapping polyester fibers

Help save Earth's natural resources

Windows are usually the greatest single cause of heat loss in your home. Warm Window insulated shades are a beautiful way to reduce the amount of heat escaping through your windows, conserving vital fossil fuel while saving you money on utility costs winter and summer. And your living spaces will be more comfortable.

Make rooms darker for daytime sleeping and reduce noise pollution from outside sources

Additional benefits of the Warm Window system are room darkening and noise reduction. Daytime naps of small children should not be disturbed by bright sunshine, barking dogs, sirens and other outside noise. Warm Window shades will help.



Reduce window heat loss by more than 81%

The fabric inside your shade, along with the special magnetic tape that seals it in place at your window when it's closed are the keys to energy savings. In independent tests, Warm Window has been proven to reduce window heat loss by 81%. The savings on your heating bill could pay for your Warm Window shades!

Reduce solar heat gain by up to 79%

In the summer, Warm Window shades block 79% of the solar heat gain through windows, save air conditioning costs and making your home more comfortable. Sun damage to your furniture and carpeting is also reduced.

It all adds up to
Comfort

WHAT IS R-VALUE?

R-value is the measurement of materials to resist the flow of heat. Higher R-value indicates greater insulating capacity of the materials. The Warm Window system was independently tested over a single glazed window. The R-value increased from about R-1 to R-7.69.

R-value comparisons

Single Glazed Windows	R-1.3
Insulated Glass with 3/8" air space	R-1.61
Outside Storm Window with 3" air space	R-1.78
Warm Window Insulated Shade over single glazed windows	R-7.69

WHAT MAKES A WARM WINDOW?

The Warm Window® system combines a multilayer insulated fabric to be covered with whatever decorator fabric you choose. The finished shade is magnetically sealed to the window frame much like the magnetic seal on your refrigerator door.

Warm Window® shades may be easily fabricated by sewing or by simply bonding the materials together using Steam-A-Seam2® fusible web and a household iron. Fabrication is basically two side seams, top and bottom hems, add weight bar, rings, cord and pulley and install the finished shade.

Different operating hardware will be required for a Roman Shade or a Side-Draw Shade. Required supplies and helpful tools are listed below.

Materials for a Roman Shade

- Warm Window fabric
- Decorator cover fabric
- Magnetic strips
- Magnetic tape
- Cord
- Cord reel
- Cleat
- Rings
- Pulley
- Screw eyes
- Mounting Board
- Mounting screws
- Weight bar
- Hook-and-loop tape such as Velcro®

Optional Materials

- Steam-A-Seam2® for no-sew method
- T-handle (to replace protruding crank)
- Buttoneer fasteners

Materials for a Side-Draw Shade

- Warm Window fabric
- Decorator cover fabric
- Magnetic tape
- Side-draw track kit (includes snap tape and wand)
- Spray adhesive

Optional Materials

- Steam-A-Seam2® for no-sew method
- Drapery weights

Cover fabric should be tightly woven medium weight cotton or cotton-polyester blend. The magnets will attract to each other through one layer of your cover fabric. Avoid fabrics with heavy texture that reduces the magnetic attraction. Test your selection with a magnetic strip on each side to determine their attraction through it.

Tools and Equipment

For either fabrication method

- A large work surface. A sheet of plywood laid across a padded table works well.
- Carpenter square or T-square. (The large, drywall type is best.)
- Steel measuring tape
- Heavy duty staple gun
- Fabric marking pencil
- Power drill/screw gun for mounting
- Scissors and/or rotary cutter

Sewing method

- Sewing machine
- Needle and thread

No-sew method

- Steam iron
- Press cloth (muslin 12" x the shade length works well)
- Buttoneer® ring attachment device

HELPFUL HINTS

When using a sheet of plywood for a work surface, a rotary cutter may be used to cut either fabric right on the plywood. The blade dulls a little faster than with a self-healing mat but the result is very satisfactory. All required ironing may be done on the plywood as well rather than moving the materials to a small ironing board.

SIX EASY STEPS TO A ROMAN SHADE!

1 MEASURE WINDOW

Follow the guide on page 7 to choose your shade-mounting method and to determine the shade measurements.

2 CUT YOUR FABRICS

Cut your decorator fabric and the Warm Window fabric.

3 ASSEMBLE SHADE

Attach the cover fabric to the Warm Window fabric and apply magnetic strips.

4 FINISH SHADE

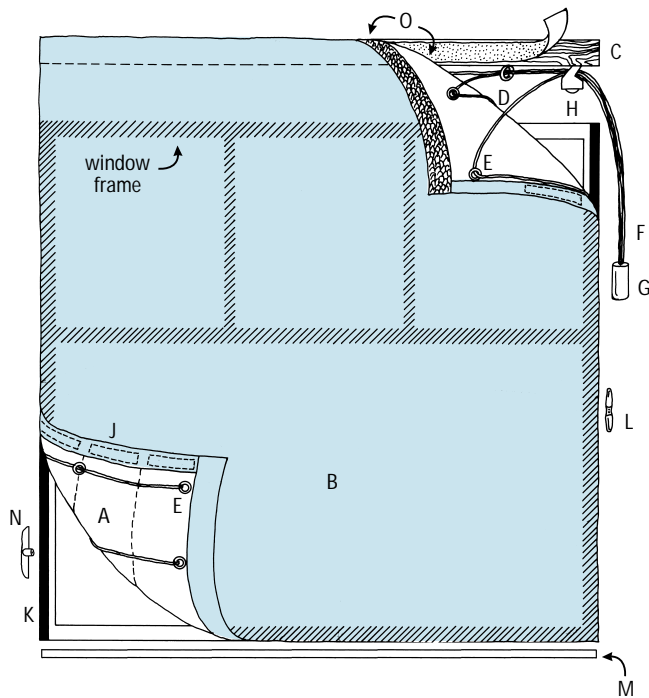
Add the rings and hem the shade.

5 PREPARE FOR MOUNTING

Attach your shade to the mounting board and add the cords and pulley.

6 MOUNT SHADE

Follow the diagrams to mount your shade for beautiful, energy-efficient results.



Anatomy of a Warm Window Roman Shade

- A. Warm Window fabric
- B. Cover fabric
- C. Mounting board
(1" x 2" fabric-covered board; see page 12)
- D. Screw eyes
- E. Rings
- F. Cord
- G. Cord reel
- H. Pulley (locking or standard; use standard, non-locking for shades over 5' wide; see "Glossary" on page 24)
- I. Mounting screws (2"-long screws that hold mounting board in place; not visible in diagram)
- J. Magnetic strips
(applied inside the shade between quilting lines)
- K. Magnetic tape (applied to wall or window frame)
- L. Cleat (use with non-locking pulley)
- M. Weight bar
- N. Optional T-handle (replace existing window crank that is in the way of shade operation)
- O. Hook-and-loop tape
(for easy installation and repositioning)

Roman Shade Mounting Options

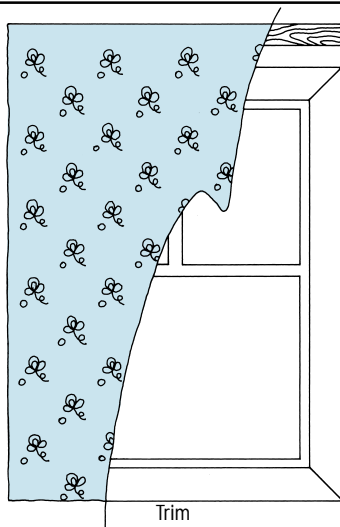
To decide on the appropriate mounting option for your windows, consider the following points and review the illustrations on page 7 to determine which one best suits your needs.

- Does your window have decorative trim surrounding it, or no trim at all?
- Is there a smooth place on the trim to which the magnetic tape will adhere?
- Do you want to conceal the trim around your window or allow it to show when the shade is lowered?
- How much space is there above the window for stacking? (See "Shade Stack Dimensions" on page 27.)
- Are there light switches or heating vents that could interfere with raising and lowering the shade?
- In a room with multiple window sizes, how can each shade be mounted to create a consistent look?

STEP 1

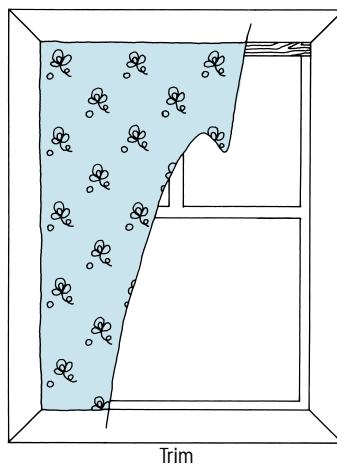
MEASURE YOUR WINDOWS

Outside mount



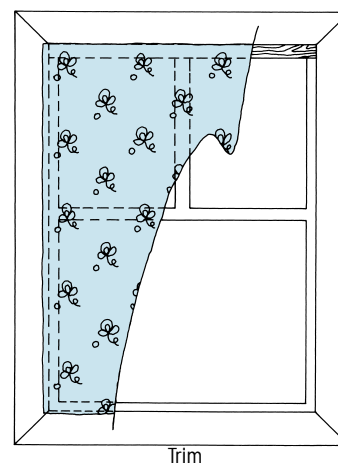
- Ideal for most windows.
- Can be used on windows with trim or without trim.
- Permits shade to be drawn up completely above window so glass is not obscured when shade is open.
- Shade must extend beyond window opening a minimum of 3/4" each side.
- Mounts to the wall above the window with the mounting board installed flat against the wall.

Inside mount



- Shade fits completely inside window opening.
- Window opening must be square for the shade to fit snugly.
- It may be necessary to add 3/4" x 3/4" moulding inside the window opening at sides to attach magnetic tape for a complete edge seal.
- Mounting board installs to inside top of window frame.

Hybrid mount



- Combines features of outside and inside mount.
- Suitable for windows with or without trim.
- Can be used on windows that are not "square".
- Mounting board installs to the inside of the window frame.
- Shade extends beyond window opening a minimum of 3/4" each side.

Determining the Size of the Finished Shade

Check each window for exact size at top, bottom and both sides. Check for square by measuring from corner to corner on each diagonal of the window opening.

Outside mount

The finished shade should extend outside of each edge of the window opening at least 3/4" but may be wider depending on the location on the trim where you expect to place the magnetic tape. Flush with the outside edge of the trim works well. The bottom of the shade will rest on the window sill or extend below the window opening if the sill is flush to the wall. The top of the shade may be any distance above the window opening. Mounting on the wall right next to the ceiling usually allows the opened shade to stack completely above the window opening.

Inside mount

The size of the finished shade is the same as the net window opening. Note that exact fit is more critical than with the other mounting methods. If your window is not precisely square, use a different mounting method.

Hybrid mount

To determine the width and bottom dimensions of your shade, use the above guidelines as with the outside mount. The top of the shade will be the top of the window opening with the mounting board installing inside of the frame.

Note: All mounting methods require extra fabric allowance top and bottom for mounting and hemming as shown on the following page. Especially with large shades, consider making an allowance for possible fabric shrinkage caused by atmospheric moisture. Cotton or cotton blend decorator fabrics may shrink 1% to 2% over time. A little extra shade overlap at each side helps ensure an edge seal, even with some shrinkage.

STEP 2 CUT YOUR FABRICS

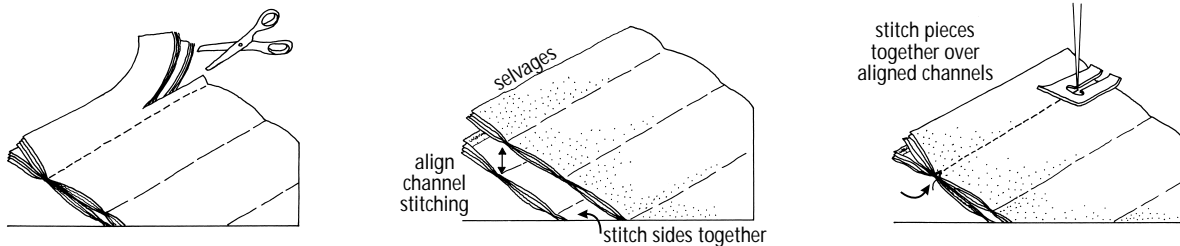
Measure and cut your fabrics according to the instructions below.

The Warm Window fabric

The cut width of the Warm Window fabric is equal to the width of the finished shade. The cut length is equal to the desired length of your shade plus about 6 inches for hemming and mounting. Trimming the length to the exact requirement may be left until just before finishing the top hem.

The Warm Window fabric is available in widths of 48" and 60" including the selvage. The channel quilting lines will run horizontally across the window. For taller windows, it is necessary to join two widths of the Warm Window fabric together by machine sewing or bonding with Steam-A-Seam2®.

Piecing Warm Window fabric for taller windows

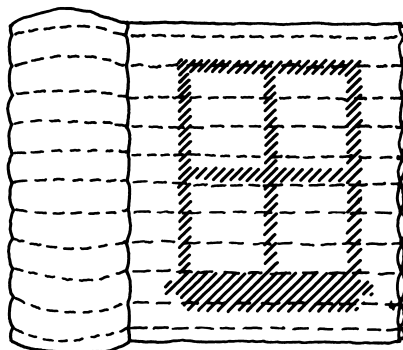


Cut two or more lengths of Warm Window fabric each a little longer than the desired width of your finished shade. The extra allowance can be trimmed later.

Sewing method: With the smooth-surfaced lining sides facing each other, align the outermost channel stitch lines and pin or baste the pieces together. Machine stitch through all layers at 10 stitches per inch. Holding the fabric layers a little taut in front of and behind the needle will help to feed evenly and prevent pucker. Trim the seam to 1/4".

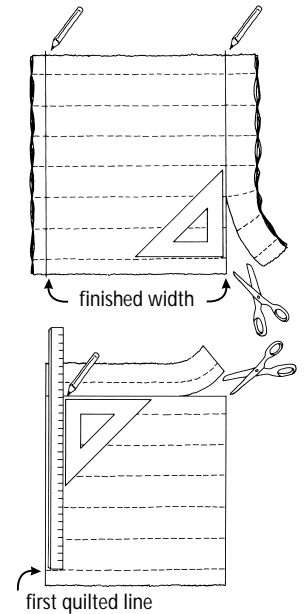
No-sew method: Peel and stick a 1/2" wide strip of Steam-A-Seam2® on the smooth lining side of one of the Warm Window pieces, adjacent to the outermost channel stitch line on the selvage side of the line. Align the channel stitch lines as with the sewing method and finger press the lining pieces together for a temporary bond. Iron with plenty of steam in accordance with the directions on the Steam-A-Seam2® package. A damp press cloth is helpful. Trim the bonded smooth lining layer even with the edge of the bond, 1/2" from the channel stitch line. Trim all other layers to 1/4".

Note: When the resulting large piece is spread out, all channel lines will be equally spaced 4" apart.



Marking and Cutting the Warm Window Fabric

1. Using a carpenter's square or T-square, mark one long side of the Warm Window fabric with a straight line that is perpendicular (at a right angle) to the channel quilting lines. If your carpenter square is not long enough to extend the full length of your shade, a long, metal straight edge is helpful. Cut along your marked line. (For large windows, piece first, following the directions on the previous page.)
2. From the cut edge, measure, mark and cut the required width of your shade.
3. Trim the length to approximately the finished shade length plus about 6" including bottom selvage, if desired. Exact length trimming can be done later.

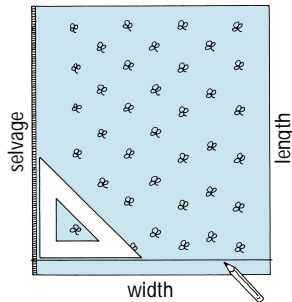


Marking and Cutting the Cover Fabric

While the Warm Window fabric is "railroaded" horizontally across the window, the cover fabric is usually hung vertically.

1. Cut a length of your cover fabric to the approximate length of the Warm Window fabric plus 4 inches.
2. From the selvage edge, measure, mark and cut the required width, (finished shade width plus 3 1/2"), making sure that the fabric design motifs are aligned to your liking.

Note: If you must join pieces of the cover fabric to get the required width for your shade, cut an additional length, then cut it in half vertically. Join half to either side of the full piece by sewing or bonding with Steam-A-Seam2®. Additional length allowance may be necessary for pattern match at the seams.



“Warm Window satisfies

both my husband and myself; he likes the savings on the heating bill, and I like shopping for all those gorgeous fabrics at the fabric stores. Sewing Warm Window is as easy as sewing a pillow case.”

– Jackie Trute, Ravenna, MI

STEP 3 ASSEMBLE YOUR SHADE

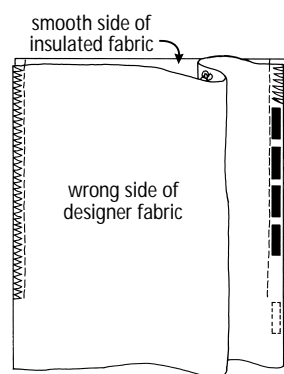
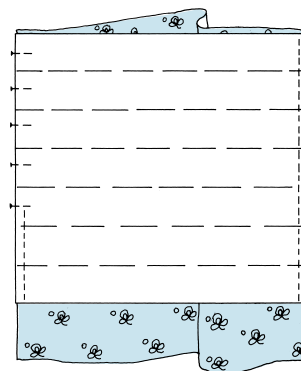
1. Align the edges.

Place the right side of the cover fabric together with the smooth exterior lining side of the Warm Window fabric with the side edges matching. The cover fabric will extend 2 inches below the bottom edge of the Warm Window fabric and 2 inches above. It will not lie flat as it was cut $3\frac{1}{2}$ " wider than the Warm Window fabric.

2. Join the side seams.

Sewing method: Pin and stitch the fabrics together, along the side edges only, using a $\frac{3}{4}$ " wide seam allowance. Zigzag or serge as close to the cut edges as possible, catching all fabric layers in the stitching.

No-sew method: Peel and stick a $\frac{1}{2}$ " wide strip of Steam-A-Seam2® on the edge of the smooth lining side and extending the full length of the Warm Window fabric. Add a second strip of Steam-A-Seam2® lapped halfway across the first one in order to create a $\frac{3}{4}$ " wide strip. Align the edge of the cover fabric with the edge of the Warm Window fabric and finger press for a temporary bond. Steam iron with a damp press cloth. Note, there is little risk of overheating the Steam-A-Seam2® but the polyethylene vapor barrier could pucker if overheated. Try ironing on a piece of scrap Warm Window fabric to judge heating time.



3. Place magnetic strips

The $3\frac{1}{2}$ " long self-adhesive magnetic strips are to be placed on the wrong side of the cover fabric even with the outside edge of the seam allowance and midway between each row of Warm Window fabric channel stitching. Small arrows are stamped into each magnetic strip. In order for the shade to properly attract to the long magnetic strip that will be adhered to the window frame, it is important that the arrows along the full length of each row, point in the same direction. Peel the protective paper and press firmly. Leave off the magnets from the channel nearest the bottom.

4. Turn the shade right side out.

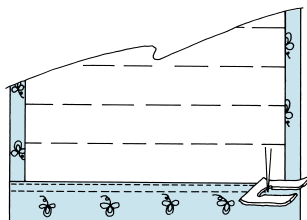
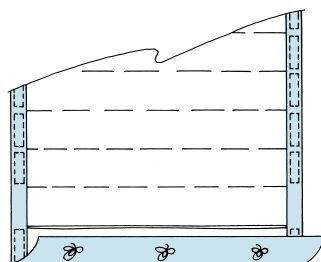
Your shade may now be turned right side out, as with a pillowcase. The additional width of cover fabric allowance should have wrapped around the magnetic strips and be flat and smooth across the face of the shade. If too taut, adjust the side seams accordingly.

For a clean, crisp look to your shade and to prevent possible future sagging of the cover fabric, a **very light** coating of a light tack spray adhesive may be sprayed onto the Warm Window fabric while the cover fabric is being held away. Be careful of overspray in your work area.

HELPFUL HINTS

The adhesive holding the magnetic strips is permanent unless it comes in contact with dry-cleaning fluid. To ensure that the strips will stay in place, if the shade is ever to be dry-cleaned, lay a strip of Steam-A-Seam2® across the top of the row of magnetic strips before the shade is turned right side out. After the shade is otherwise completed, iron the cover fabric at the edges on top of the magnetic strips. The Steam-A-Seam2® bond will hold even during dry-cleaning.

STEP 4 FINISH YOUR SHADE



The Bottom Hem

The bottom hem of your shade also serves as a pocket for the weight bar. With the weight bar in place at the bottom of the pocket, the shade will rest firmly on the sill or against the wall if no sill for a good air seal.

Sewing method: With the shade lying flat with the back side up, turn up the selvage of the lining layer of the Warm Window fabric to a point even with the other layers and iron a crease. Turn up the extra cover fabric to the same point and iron a crease. Bonding each of these folds of fabric with Steam-A-Seam2® is helpful. Turn up the entire hem so that the bottom crease is aligned with the second channel stitch line that is about 6 inches from the bottom selvage. Machine stitch the hem with one or two stitch lines near the top of the hem. The weight bar will be cut to length a little shorter than the width of the shade. It will be inserted into the hem allowance later. The side edges will then be closed with slipstitches.

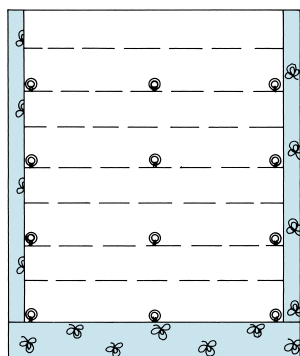
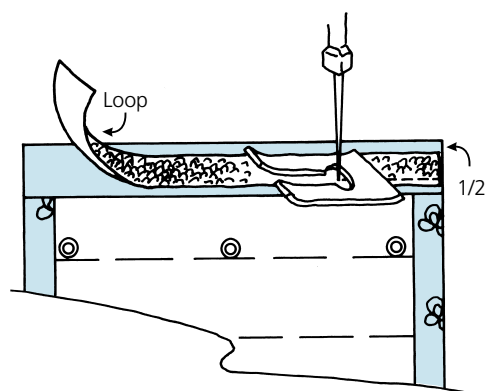
No-Sew method: Follow the directions above except bond with Steam-A-Seam2® instead of sewing.

The Top Hem

The location of the top hem of your shade can now be determined. Using the overall height dimension that you want for your shade, (adding up to 1/2" for an outside or hybrid mount is desirable), measure from the finished bottom, mark and cut the Warm Window fabric only. Then cut the cover fabric one inch longer. Fold the cover fabric over the top and press flat.

Sewing method: Choose 1" or 1 1/2" wide, sew-on style hook and loop tape like Velcro® in a compatible color. Align a length of the loop section across the top edge of the back side of the shade and machine stitch through all layers on each edge of the tape.

No-Sew method: Choose the adhesive backed hook and loop tape. Bond all layers together by laying strips of Steam-A-Seam2® on the top of the fuzzy side of the Warm Window fabric toward the front of the shade, between each of the other layers and between the exterior lining and folded end of the cover fabric. Iron from both sides with plenty of steam. Peel and stick a length of the loop tape to the back side of the shade at the top.

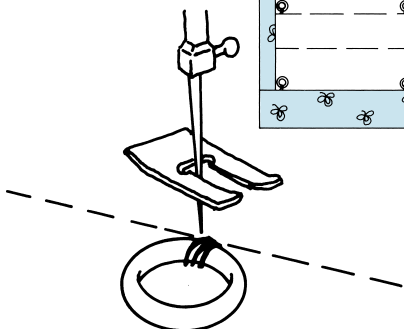


Attach the rings:

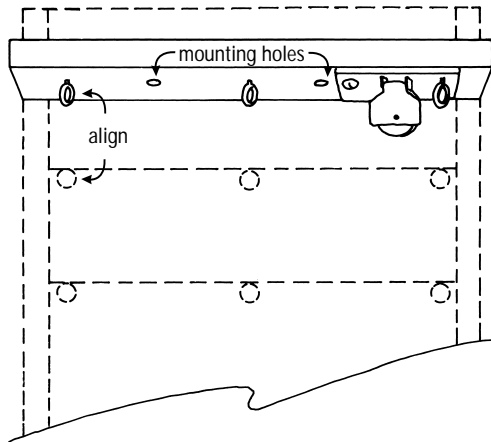
Rows of rings on the back of the shade guide the draw cords up the shade to screw eyes in the mounting board. Use 3/8" brass or plastic rings. They may be attached by hand sewing, a zigzag sewing machine stitch or without sewing using a Buttoneer®. Mark the locations for the rings beginning at the bottom quilting line at the top of the hem 1 1/4" from each side. Add a ring on every other quilting line extending up the shade. Usually there is no ring on the topmost quilting line. Space the remaining rings in rows 8" to 12" apart across the width of the shade again on every other quilting line.

Sewing method: Pin through all layers at each ring location to prevent shifting while you attach the rings. Lower the machine feed dogs and sew a ring in place at each mark using a zigzag stitch through all fabric layers.

No-Sew method: Attach the brass rings with small plastic fasteners using a Buttoneer® attaching device manufactured by the Avery Dennison Company.



STEP 5 PREPARE FOR MOUNTING



Prepare the Mounting Board

1. Prepare the mounting board by cutting a 1" x 2" the width of the finished shade for an outside mount or to fit inside the window frame for an inside or hybrid mount. For an inside or hybrid mount, the board will be installed with the wider surface of the board against the top of the window frame. For an outside mount, the wider surface will be against the wall, with the pulley and screw eyes attached to the lower edge.

2. Drill mounting screw holes slightly larger than the diameter of the 2" long mounting screws. Try to position them so they are not directly above the rows of rings where a screw eye will be located.

3. Wrap the board with a scrap of cover fabric. Staple or bond the fabric to the wood using Steam-A-Seam2®.

4. Attach a pulley at the side of the shade where you want to pull the cords to raise it, positioning it above the outer row of rings. Use a screw to attach the inner end of the pulley and a screw eye to attach the outer end, lining up the screw eye with the outer row of rings.

5. Insert screw eyes above each of the other rows of rings. For easier operation of very large shades, pulleys may be used in lieu of screw eyes.

6. Staple the hook side of the hook and loop tape to the fabric covered mounting board.

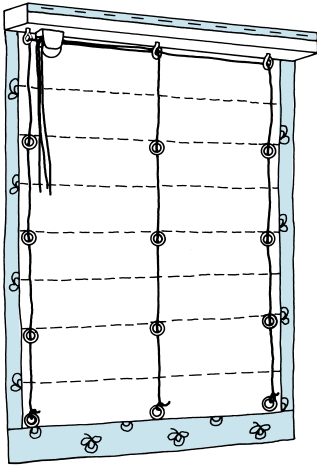
7. Attach the shade to the mounting board by joining the hook and loop tape. Adjustment for the final fit will be done after the shade is mounted on the window.

“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 its weight in gold!”

– Lois DeFord, Helena, MT

Add the cords



1. Begin stringing the cords at the row of rings below the pulley. Feed the cord through the bottom ring and continue up through each until threading through the screw eye adjacent to the pulley. Then thread it down through the pulley on the outward side of the pulley wheel leaving 2 to 3 feet of cord below the pulley. Cut it below the bottom ring and tie.

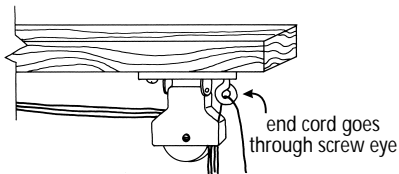
2. String another cord up through the next row of rings, through the appropriate screw eye, then over and down through the pulley. Match the length of the other cord below the pulley, cut and tie to the bottom ring.

3. Repeat the process for all remaining cords.

4. Secure the knots with some drops of white glue or clear nail polish.

5. Tie the cords together with an overhand knot a few inches below the pulley after pulling slightly you achieve even tension on all cords. Cut all to the same length leaving them long enough so you can easily reach them when the shade is completely lowered.

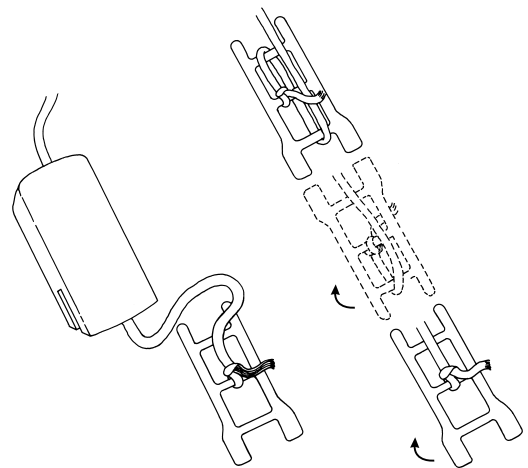
6. Braid the cords from the knot to the end. Tie the loose ends to a cord reel or finish with another overhand knot.



Stringing the cord reel

The cord reel is a handy way to safely store the long length of cord that is extended when the shade is raised.

Insert the cords through the hole at the top of the cover. (Use an awl or knife to enlarge the hole if necessary.) Slide the reel cover over the cords. Tie the cord ends to the center rung of the reel base, then slide the cover down over the reel. To raise the cord reel to a higher position, slide the cover up the cord and wind the cord around the top and bottom rung of the reel. Slide the cover over the reel to secure and conceal the wound cord.



Your shade is now complete, ready to install. The pleats in the shade will fold easier as the fabric develops a “memory.” To speed the process, fold the shade on each quilt line as it will be folded when hung and drawn open. Tie strips of fabric around it loosely and allow it “set”. Steaming will help.

Warm Window saves

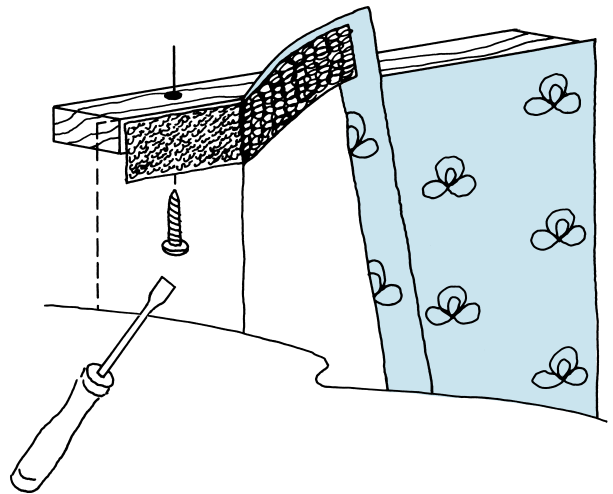


ROMAN SHADE

STEP 6 MOUNT THE SHADE

You're now ready to mount your shade in the window and add the magnetic tape that will seal the shade in place when it's in the closed position.

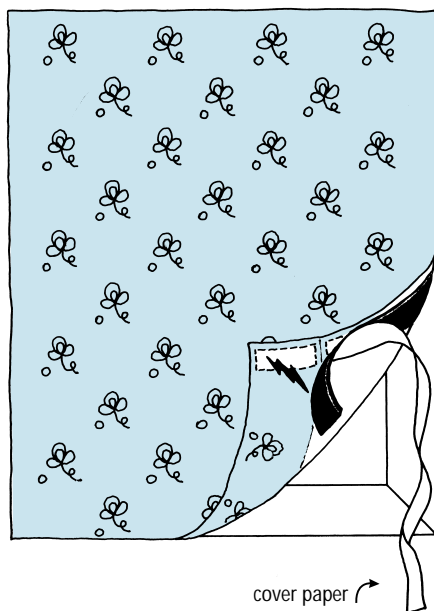
1. Use long mounting screws to attach the mounting board to the wall, ceiling or inside your window according to your chosen mounting style. You may need to use molly or toggle bolts in some situations.
2. If using a standard pulley, mount the cleat to the wall or frame on the same side of the window as the pulley is located.
3. Align the shade to hang straight, with equal overlap on each side, by peeling it from the mounting board and reattaching as necessary.
4. Cut pieces of magnetic tape to extend the full length on each side of the window. Place the strips on the back along the shade edges so they are attracted to the magnets inside. If the magnetic tapes inside and outside the shade do not align with the edges even, rotate the long magnetic strip 180° and try again.





5. Clean the wall or window frame with rubbing alcohol in the area where the magnetic tape will be placed to ensure secure adhesion.

Note: The magnetic tape may be painted or even wallpapered to match the wall. Painting before installation with enamel from a spray can works well. Warm the tape slightly before painting to prevent curl. Let dry completely before installing.



6. While the long strips of tape are still magnetically attracted to the shade, peel the paper backing and while holding the shade slightly away from the wall to prevent premature adhesion, align the shade so it will hang straight and press the sides of the shade to the frame surface. Apply concentrated pressure to the tape such as with a rolling pin to remove air pockets. Some wall surfaces may prevent the tape from sealing properly. If so, secure each tape at the ends and along its length as necessary with small nails.

7. Use a Warm Window weight bar or (purchase a 3/8"-diameter steel weight bar and coat it with paint or varnish to prevent rust that can stain the shade). If using a Warm Window bar, adjust the size to fit inside the hem, following package directions. If using a steel bar, have it cut slightly shorter than the width of the window so it won't rub the window frame. File the cut ends or cover them with thick tape to prevent snags in the cover fabric. Insert the weight bar into the bottom hem. Close the ends by hand stitching or with Steam-A-Seam2®.

SIX EASY STEPS TO A SIDE-DRAW SHADE

1 MEASURE WINDOW

Follow the guide below to choose your shade mounting method and to determine the shade measurements.

2 CUT YOUR FABRICS

Cut your decorator cover fabric and the Warm Window fabric to the correct sizes.

3 ASSEMBLE SHADE

Attach the cover fabric to the Warm Window fabric.

4 FINISH HEMS

Hem the top and bottom edges of the shade.

5 APPLY SNAP TAPE

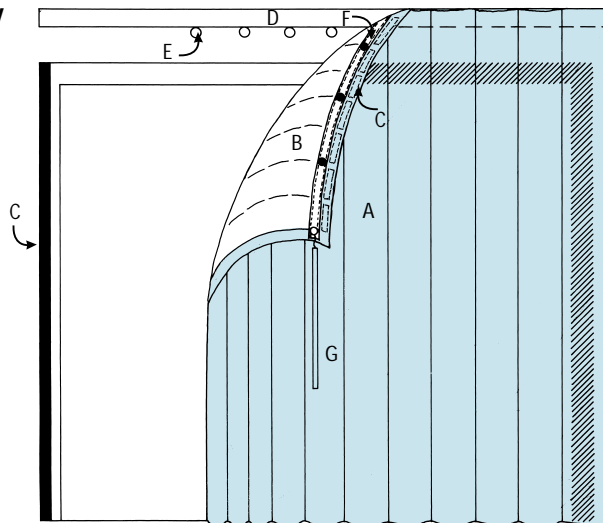
Attach the zipper foot to your sewing machine and stitch the snap tape to the shade or bond with Steam-A-Seam².

6 MOUNT SHADE

Install the track, then snap the completed shade to the carriers in the track.

Anatomy of a Warm Window Side-Draw Shade

- A. Cover Fabric
- B. Warm Window Fabric
- C. Magnetic tape
- D. Track with magnetic facing
- E. Sliders
- F. Snap tape
- G. Drapery wand



Materials for a Side-Draw Shade

- Warm Window fabric
- Decorator cover fabric
- Magnetic tape
- Side-draw track kit (includes snap tape and wand)
- Spray adhesive

Optional Materials

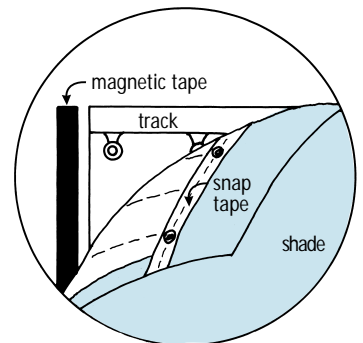
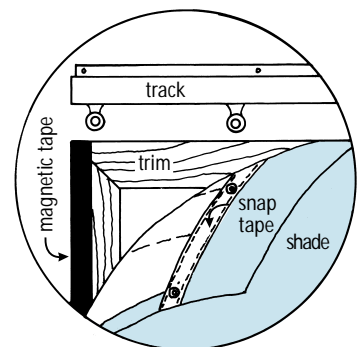
- Steam-A-Seam²® for no-sew method
- Buttoneer[®]

Side-Draw Shade Mounting Options

THE TRACK KIT: The track kit contains all of the components needed to make and install your Side-Draw shade, except fabrics and magnetic strips. The specially engineered side-draw track is a rigid white plastic with magnetic tape across its face. The track is 107 1/2" long but may be easily cut to desired length or coupled together for larger windows. A flange extends from the top to facilitate attaching the track to the wall. The flange can be easily snapped off to screw the track to the top of the window frame or to the ceiling. The shade is attached with snaps to rolling travelers that extend from the bottom of the track.

OUTSIDE MOUNT: The track may be positioned on the wall at any distance above the door or window. Drill pilot holes through the flange for the screws. A ceiling mount is also possible by snapping off the flange and screwing through the top of the track to a mounting board that is screwed to the ceiling.

INSIDE MOUNT: The track, with the flange removed, would be screwed to the top of the window frame flush with the front edge. The shade could then extend slightly above the frame without dragging. The sides, extending past the frame edge, would be flush with the wall.



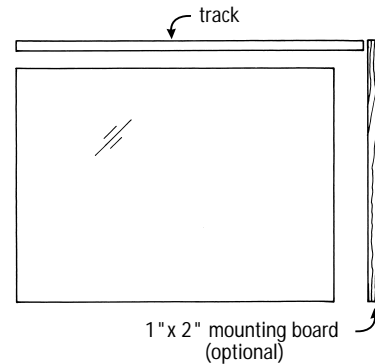
STEP 1

MEASURE YOUR WINDOW

Decide in which direction your shade will open and determine if there are any obstacles on the wall that could impede the shade operation. The distance to an adjacent wall as well as a fireplace, light switch, or heat vent can be important. To determine how much space your shade will occupy when it's open, refer to the stacking allowance chart on page 27.

Measuring for an Outside Mount: Determine how far outside the window/door casing or trim that you want the shade to extend and measure the width accordingly. Consider one of the following options:

- A.** The shade extends to the outer edges of the trim, covering it completely when closed. The magnetic tape is positioned at the outer edges of the trim.
- B.** The shade stacks beyond the window/door opening, exposing all of the glass when open. A mounting board may be added to the stationary side of the shade for attaching the magnetic tape.
- C.** Length may extend to any distance that you choose below the window or to within 1/2" of the floor. The top of the shade will be even with the top of the track for a ceiling mount or plus 1" for an outside mount with the flange attached to the wall.



Measuring for an Inside Mount: For an inside mount, consider one of the following options:

- A.** The shade fits completely inside the window/door opening. The addition of trim at each side for application of the magnetic tape may be required.
- B.** The shade sides extend beyond the window/door opening at least 3/4" but up to 4". Remember the shade top is not supported above the end of the track mounted inside the frame opening. The magnetic tape will be adhered to the wall or trim.
- C.** The top of the shade will be even with the top of the track plus 1/2".

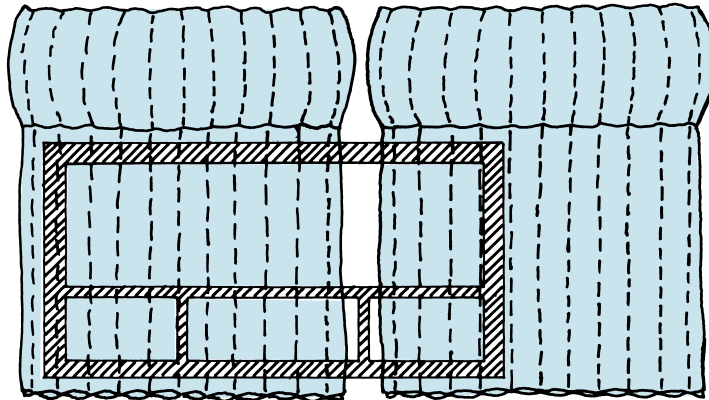
“We have a **condo up in the mountains** near Boulder. Since installing Warm Window our **electric bill** is consistently **30% less** than our neighbors—I know, I’ve kept my receipts.”

– Susan Weissenrieder, Boulder, CO

STEP 2 CUT YOUR FABRICS

Marking and cutting the Warm Window fabric

Note that for the Side-Draw Shade, the channels of the Warm Window fabric run vertically rather than horizontally like the Roman Shade. If your shade is to be wider than one width of the Warm Window fabric, join two or more together. Review piecing cutting hints described on page 8.



After piecing together the number of widths sufficient for your shade, mark and cut your Warm Window fabric to length equal to the planned length of your finished shade as determined in Step 1. Beginning at the planned operating side of the shade, the last snap where the shade is to attach to the track roller will be located on the second quilted stitch line about 6" from the edge of the fabric. Determine your preferred distance from that stitch line, to the side edge of the shade (usually 2" to 4"). Measure from that stitch line to the planned edge of the shade and cut. From the cut edge, measure the width of your finished shade, plus any shrinkage allowance as described on Page 7, and cut.

Marking and cutting the cover fabric

If your shade is wider than one width of your cover fabric, piece two or more together as described on page 8. When cutting the widths to be joined, consider that the net length of the completed piece should be the finished shade length plus 10", allowing for a 3" wide top hem, a 6" wide bottom hem and a 1" allowance for possible shrinkage during assembly. If using a print fabric, consider the need for matching pattern repeat across the entire shade. Cut the completed panel 3 1/2" wider than the cut Warm Window fabric and 10" longer.

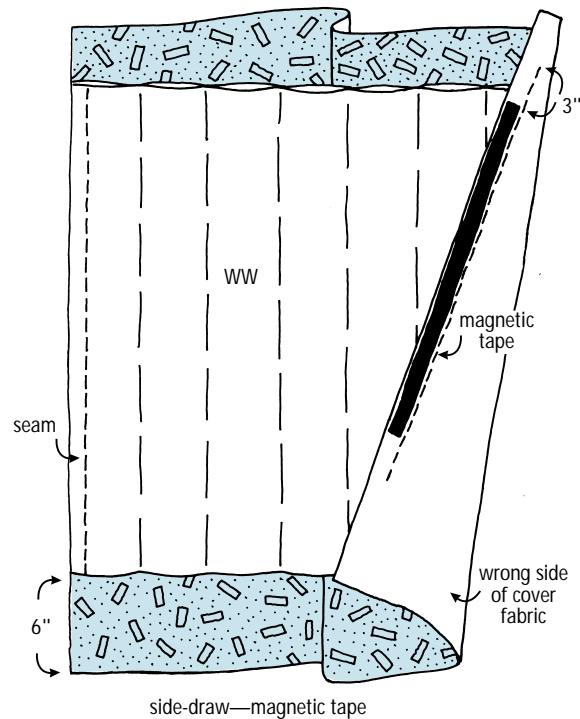
“Warm Window shades make a **huge difference** in the house during the summers. They make my rooms 10-15 degrees cooler in the summer. There is a noticeable difference in temperature between the rooms that have Warm Window shades and the ones that don’t.”

– Janice Robinson, Portland, ME



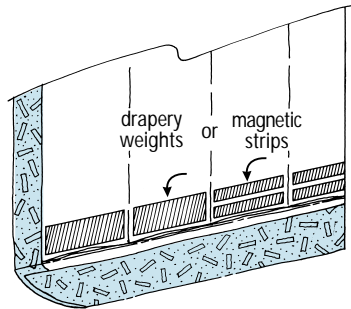
STEP 3 ASSEMBLE YOUR SHADE

1. Position the Warm Window fabric and the cover fabric with right sides together and the side edges even. The cover fabric should extend 6" below and 4" above the top edge of the Warm Window fabric. Stitch each side seam, using a 3/4"- wide seam. With your machine set for zigzagging, stitch again close to the raw edges through all layers. *No-Sew method, refer to instructions on page 10, paragraph 2.*
2. Turn the shade right side out. The cover fabric should lie flat and smooth across the face of shade. If the fabric is too loose, stitch slightly deeper seams to take up the slack. If cover fabric is too tight and the shade curls up a bit at the outer edges, remove the original stitching and turn the shade wrong side out again, stitch slightly narrower seams for a better fit.
3. Cut 2 pieces of magnetic tape the length of the shade minus 6". With the shade wrong side out, peel away the paper backing and position the tape along the outer edges of the shade on the cover fabric side within the seam allowance. The end of each strip should be 3" from the top of the shade. Turn the shade right side out again.
4. At the bottom edge of the cover fabric, turn up a 3"-wide hem and press. Turn again and press to make a doubled 3"-wide hem. *Pin in place.*
5. Position the shade with the cover fabric face up. Insert the can of spray adhesive between the cover fabric and the Warm Window fabric and apply a **very light** and even mist of adhesive to the fuzzy surface of the Warm Window. Smooth the cover fabric in place, eliminating any wrinkles. Press lightly.



STEP 4 FINISH THE HEMS

Hem the Bottom



1. Remove the pins holding the hem in place. For weight, place two magnetic strips in each channel along the width of the shade parallel to the bottom. You may need to cut the strips to fit at the end sections. Drapery weights, available at most fabric stores, may be substituted for the magnetic strips. Use glue stick to adhere them.

Sewing method: Re-pin the hem allowance in place and hand or machine stitch through all layers close to the upper folded edge.

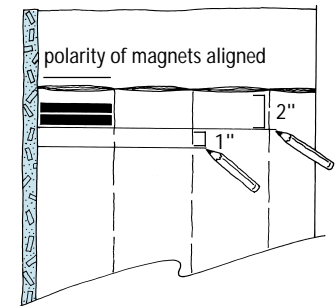
No-Sew method: Unroll and adhere full length strips of Steam-A-Seam2® along the tops of the rows of 3 1/2" magnetic tape strips and an additional strip on the cover fabric next to the edge of the hem. Iron with steam according to the Steam-A-Seam2® package directions.

Hem The Top

With the smooth lining side of the Warm Window facing you, mark placement lines for magnetic strips and snap tape, following the directions below for the type of mount you are using.

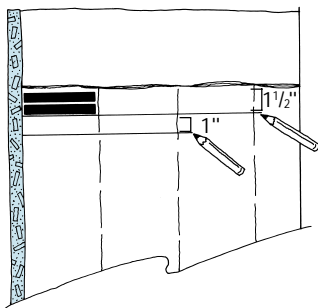
Outside Mount

- 1.** Draw a line 2" below and parallel to the top edge of the shade. Draw a second line 1" below the first line.
- 2.** Place 2 rows of magnetic strips above the first marked line 2" from top of Warm Window, placing the strips between each vertical channel. Make sure that the polarity of the magnets is the same by positioning all of the embossed arrows on the magnets in the same direction.
- 3.** Fold the cover fabric over the top edge of the Warm Window fabric, concealing the magnetic strips. The edge of the cover fabric should line up with the remaining line marked 3" from the top edge of the shade. If necessary, trim or fold the cover fabric even with the marked line.



Inside Mount

- 1.** Draw a line 1 1/2" from the top edge of the shade. Draw a second line 1" below the first line.
- 2.** Place 2 rows of magnetic strips above the first marked line 1 1/2" from the top of Warm Window, placing the strips between each vertical channel. Make sure that the polarity of the magnets is the same by positioning with all embossed arrows on the magnets pointing in the same direction.
- 3.** Fold the cover fabric over the top edge of the Warm Window, concealing the magnetic strips. The edge of the cover fabric should line up with the remaining marked line, 2 1/2" from top of shade. Trim or fold the cover fabric even with the marked line if necessary.



Sewing method: Machine baste close to the folded edge.

No-Sew method: Add strips of Steam-A-Seam2® across the rows of magnetic strips and at the lower edge of the cover fabric. Steam iron to permanently bond.

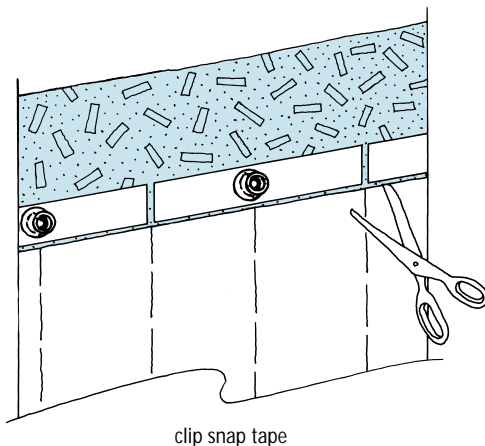
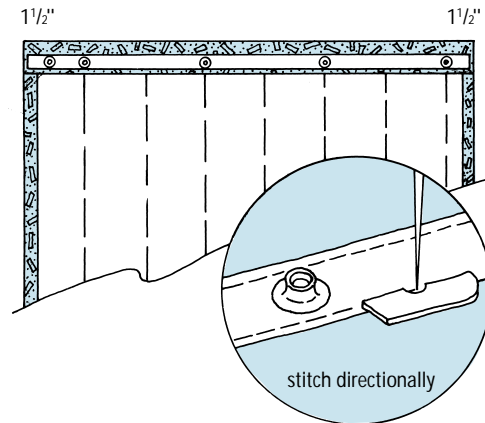
STEP 5

APPLY THE SNAP TAPE

1. Cut a strip of the snap tape to match the width of the shade. Pin to the back of the shade with the bottom edge 3" from the top edge of the shade for an outside mount or 2 1/4" from the top edge for an inside mount with the snaps positioned above the quilt lines.

2. Position the snap tape with the first snap above the channel line nearest the operating edge.

3. Skip the next row of channel stitching and position the next snap in line with the next channel (8" from the first snap). It will be necessary to cut the snap tape to space the snaps correctly. Use two rows of Steam-A-Seam2® on the back of the snap tape to hold temporarily before sewing or ironing.



4. Position the remaining snaps (8" apart) above every other row of channel stitching.

Sewing method: Using the zipper foot, stitch close to each long edge of the snap tape, backstitching at the ends. Stitch both sides in the same direction to help prevent puckers.

No-Sew method: Iron the snap tape with plenty of steam. Reinforce with two Buttoneer fasteners on each side of every snap.

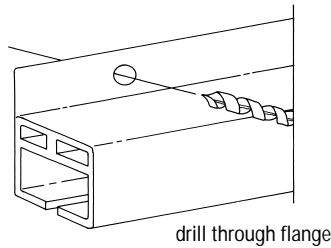
5. Clip the snap tape at each channel line between the snaps to enable shade to fold more easily.

Your shade is now complete, ready to install. The pleats in the shade will fold easier as the fabric develops a "memory." To speed the process, fold the shade on each quilt line as it will be folded when hung and drawn open. Tie strips of fabric around it loosely and allow it "set". Steaming will help.

STEP 6 MOUNT THE SHADE

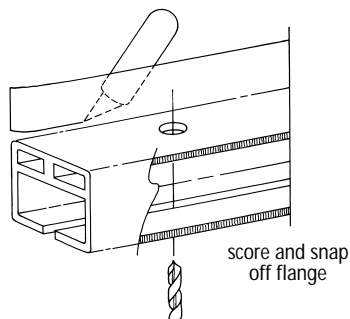
Install the Track

Outside Mount



Cut the track to length with a hack saw if necessary. Drill holes through the flange in the track near each end and about 16" apart along its length. Position on the wall and insert 1 1/2" or 2" screws. Note that the track is flexible and must be kept straight. Count the number of snaps on your shade and slip that number of rolling travelers into the track at one end and install the end caps.

Inside Mount



Using a utility knife, score the flange along the back of the track and snap it off. Drill holes in the top of the track, near each end and about 16" apart, inserting the drill through the groove on the bottom. Count the number of snaps on your shade and slip that number of rolling travelers into the track at one end and install the end caps. Hold the face of the track even with the front of the window frame and insert screws. Note, screws with large head could interfere with shade rollers.

HELPFUL HINTS

To simplify installation of an outside mount temporarily nail a straight 1" x 4" board, that is at least as long as the track, onto the wall with the top edge at the correct location for the bottom of the track. Level with a carpenter level or by measuring to the ceiling from both ends. Lay the track on top, slide left or right as needed and insert all screws before removing the board.

Install the Shade

1. To install your completed shade, simply snap it to the carriers in the track mounted on the wall or in the opening, beginning with the last snap at the stationary end of the shade.
2. Before attaching the last snap at the opening end of the shade, hook the ring at the end of the drapery wand over the first carrier. Then finish snapping the shade in place.
3. Cut lengths of magnetic tape to extend the full length of each side of the shade. To install on the wall, refer to instructions on pages 14 and 15.
4. Applying some tension as the final step in closing the shade will cause the shade to flatten at the top and the magnets to attract, creating the air seal. The stationary end of the shade should therefore be attached firmly to the wall or window frame. A small finishing nail at the top and bottom through all layers is usually sufficient.

MATERIALS CHECKLISTS

Use the handy checklists below, or make photocopies to gather the necessary materials and equipment to complete your Warm Window project. Page numbers are listed for descriptions and directions for using each item and figuring required amounts.

Shade Width = _____ Shade Length = _____

MATERIALS REQUIRED

Item	Amount Needed	
	ROMAN	SIDE DRAW
Warm Window Fabric		
Decorator Cover Fabric		
3 1/2" Magnetic Strips		
Continuous Magnetic Tape		
Weight Bar		— —
Rings (brass if using a Buttoneer®)		— —
Cord		— —
Cord Reel		— —
Pulley (Locking or Standard)		— —
Screw Eyes		— —
Mounting Board		— —
Mounting Screws		— —
Cleat (Necessary if using a standard pulley)		— —
Hook & Loop Tape (sew on or adhesive backed)		— —
Side Draw Track Kit	— —	

HELPFUL TOOLS

	Household Iron
	Spray Adhesive
	Scissors or Rotary Cutter
	Staple Gun
	Ruler or Measuring Tape
	White Glue or Nail Polish
	Needle and Thread
	Carpenters or T-Square
	Wood or Metal Straight Edge
	Large Work Surface
	Sewing Machine
	Buttoneer® and fasteners

OPTIONAL MATERIALS

	Steam-A-Seam2®
	T-Handle (to replace the window crank)

Warm Window® fabric: Warm Window fabric, with white or ivory lining, is available in widths, including selvage, of 48" and 60". Determine the amount required after review of instructions on page 8 for a Roman shade or page 18 for a side-draw shade.

Decorator cover fabric: Review instructions on page 9 or page 18 to calculate yardage required.

Pulley, Cleat and Cord reel: one each is required for your Roman shade regardless of size. (Standard pulleys may be substituted for screw eyes on very large shades)

Hook and loop tape (like Velcro®): Yardage equal to the width of your Roman shade.

Weight bar: For a Roman shade, use 3/8" round metal rod equal to the shade width or purchase one Warm Window weight bar section for each two feet, or fraction, of your shade width and assemble per package instructions.

Screw eyes, cord, rings, magnetic strips and magnetic tape: Use the chart on page 28 to determine the quantity required for your Roman style shade.

Side-draw track kit: One kit for up to 107 1/2" of side-draw shade width. May be joined for wider shades. Add magnetic tape length equal to 4 times the height of your shade.

Steam-A-Seam2®: One 20 yard box of 1/2" width is sufficient for most shades, however you will want this product always on hand for many other uses.

GLOSSARY

CLEAT: A special metal or plastic hook required when a standard pulley is used in the Roman shade mount. It is screwed to the wall or window frame on the working side of the shade. May be used together with a Cord Reel.

CORD: Durable nylon cord (1mm or 2mm diameter) required to raise and lower Warm Window shades. Use the smaller diameter cord with the plastic locking pulley on smaller shades. Use larger diameter cord with the standard pulley for large shades.

CORD REEL: A combination cord pull and storage unit for the extra length of cord created when the shade is raised. It is designed to keep the cords out of sight and out of the way of children and pets. Choose from two sizes, depending on the size of your shade and the number of cords it must house.

COVER FABRIC: A tightly woven cotton or cotton/poly fabric of light to medium weight in a color and/or design that coordinates with your room décor. Test with a layer of your fabric choice between two magnetic strips to see if they will attract securely. Do not choose heavily textured fabrics such as tapestry or velvet.

DRAPERY WEIGHTS: Heavy metal strips that are inserted in a number of locations along the bottom edge of a side-draw shade to add weight and help it hang straight.

MAGNETIC STRIPS: Pre-cut, 3 1/2"-long, self-adhesive magnetic tapes that are positioned between the quilted Warm Window channels inside the shade before it is turned right side out. They adhere to the magnetic tape mounted on the wall or window frame, creating a tight magnetic seal and dead air space between the Warm Window shade and the window.

MAGNETIC TAPE: A self-adhesive, continuous strip of magnetic material that is attached to the wall or trim around the window. When the Warm Window shade is lowered, the magnetic tape attracts to magnetic strips (see above) hidden inside the shade edges.

METAL LOCKING PULLEY: The best locking pulley for larger shades locks the cords securely in place to keep the shade open and releases when the cords are pulled to the side. Use 2mm cord.

MOUNTING BOARD: A 1" x 2" board cut to fit inside the window for a hybrid or inside mount. For an outside mount, cut the mounting board the finished shade width. You may cover it with fabric for a more finished look.

MOUNTING SCREWS: 2" long screws used to attach the mounting board to the window frame or wall.

PLASTIC LOCKING PULLEY: Pulley that operates like the metal locking pulley and is ideal for smaller shades. It will accommodate up to six cords only.

RINGS: Small brass or plastic rings sewn to every other row of channel quilting stitches on the back of a shade to guide the cords to the pulley so you can raise and lower the shade. The cord is knotted to the bottom ring in each row of rings (spaced at 8" to 12" intervals across) on the back of the shade.

SCREW EYE: A small ring that is screwed to the mounting board. Attach one directly above each row of rings on a Roman shade to guide the cords to the pulley.

SELVAGE: The tightly woven finished edge on each long side of a piece of fabric. It follows the straight grain of the fabric. It's a good idea to trim away the selvage on your decorator fabric, as it is often so tightly woven that it can keep the fabric from lying flat while you mark and cut the required fabric panels causing inaccurate cuts.

SIDE-DRAW TRACK: A special strip of mounting hardware with snaps attached. Designed specifically to align with the spacing of Warm Window quilted channels so pleats will form when shade is drawn.

STACK: The amount of space occupied when shade is fully opened. Roman shades have an overhead stack and side-draw shades have a vertical stack.

STACKING ALLOWANCE: The amount added to the width or length of the shade so it will clear the window glass when opened.

STANDARD PULLEY: A pulley without a locking mechanism. It requires a cleat attached to the wall or window frame to hold a Roman shade in the raised position.

STEAM-A-SEAM2®: A patented fusible web with a light tack, pressure sensitive adhesive on both sides to assist in the assembly of a project before ironing for a permanent bond. It may be used in place of stitching to make a Warm Window® shade. (see page 5)

WARM WINDOW FABRIC: A quilted, insulated fabric with four layers (see page 2), engineered to prevent heat loss and solar gain. It is designed to be covered with a decorator fabric chosen to coordinate with your room décor and then made into Roman or side-draw shades that fold into crisp pleats when drawn open. The addition of magnetic strips inside the shade and along the sides of the window opening create a tight seal to stop drafts around the edges of this energy-efficient window covering.

WEIGHT BAR: A 3/8"-diameter steel or aluminum weight bar (round or oval) that is slipped into the hem or a casing at the bottom edge of a shade to give it rigid stability. The Warm Window weight bar consists of pipe sections and weighted rods that slip inside. Two foot long sections can be joined to make a bar of the required length. Follow the package directions.

COMMON QUESTIONS ABOUT WARM WINDOW

Q: What can I do about window hardware that interferes with the shade?

A: If the operating crank of a casement window prevents the shade from closing properly, replace it with a T-handle available from your Warm Window retailer. A large sliding glass door handle that protrudes too far can often be replaced with a smaller one available from a builders' hardware dealer.

Q: Do I have to use the magnetic tape?

A: Using magnetic tape is the best way to seal the shade around the window. The shade will still reduce heat loss without the magnetic seal, but not nearly as much, just like your refrigerator would not do a very good job with the door left partly open. If you are tempted to make a shade without the edge seal, consider putting magnetic strips inside the shade anyway to stiffen the edge so it will fold more neatly and crisply as it is raised.

Q: How else can I reduce the heat loss in my home?

A: In addition to insulating the attic and installing Warm Window shades, the most important thing you can do to reduce cold air infiltration is caulking. Caulk the joints where the siding meets the window trim on the outside of the house. If you still feel cold air coming in around the window on a windy day, it may be necessary to remove the trim and fill the space between the window frame and the 2 x 4 framing with tightly packed fiberglass or urethane foam from a can that does not have a fluorocarbon propellant. On a windy day, hold a lighted candle around the edges of windows and doors to check for air infiltration and caulk accordingly. Cold air may also be entering around the electrical outlets on outside walls. Install inexpensive foam pads from the hardware store under the outlet face plates to stop the cold draft.

Q: Should I use a locking pulley or a standard pulley with a cleat?

A: The locking pulley is convenient and eliminates the need to tie the cord to a cleat to hold the raised shade in place. If the shade is large and requires more than six cords, use standard pulley and cleat instead. On very large shades, use standard pulleys in place of the screw eyes above the rows of rings to make it much easier to raise the shade.

Q: How often should the shades be raised or lowered?

A: Raising the shades daily and wiping up accumulated condensation moisture will help prevent mildew. Leaving the shades open during daylight will allow solar heat gain to help warm your home on many winter days. Keeping them lowered on warm, sunny days will keep your home cooler and protect your furniture and carpets from UV damage.

Q: How can I reduce condensation?

A: The amount of condensation that will accumulate on windows is related to the amount of moisture in the air and the temperature of the window glass. With a Warm Window shade installed, the window glass is much colder since it no longer is warmed by the escaping room heat. The colder glass would normally increase condensation but the Warm Window vapor barrier stops much of the moist air from reaching the glass. The accumulated condensation is usually about the same after installing a Warm Window shade as it was before. Because the Warm Window shade is so effective in preventing the room heat from reaching the cold glass, the condensed moisture may freeze. Opening the shade daily and wiping away any accumulated condensation moisture or ice will help prevent mildew. Apply open-cell-foam weather stripping at the bottom of the glass to help absorb moisture before it reaches the sill. Place a container of desiccant behind the shade to help control moisture accumulation. If condensation is a problem, it may be the result of excessive moisture in the air from many indoor plants; the lack of an exhaust duct and fan for showers or a clothes dryer; or from the lack of a vapor barrier in the crawl space under the floor.

Q: Can I paint or wallpaper over the magnetic tape?

A: You can successfully paint the magnetic tape before it is installed with most paints available in a spray can. You can also paint over the installed tape when repainting the room. Test your paint on a small sample first to ensure that it is compatible. You can also wallpaper over the magnetic tape if the paper is lightweight and has a smooth surface. Heavily textured papers, such as flocked paper and grasscloth, may prevent a strong seal.

OPERATING YOUR ROMAN SHADE

1. To raise the completed shade, release the magnetic seal by pulling the shade out at the bottom. Holding the bottom edge of the shade with a little tension, pull the cord to raise it to the desired height.

2. So that the pleats form easily and crisply each time you use it, train the shade by raising it completely, adjusting the pleats as needed. Leave the shade raised in the fully open position for a few days. This helps the shade develop a memory so that you won't have to fuss with the pleats each time you raise the shade. You can speed up the training process before installation by loosely tying narrow strips of fabric around the pleated shade. Then have it steamed by your dry cleaner or leave it in a steamy bathroom with the door closed for a few hours.



CLEANING WARM WINDOW SHADES

Care for your Warm Window® shades in much the same way that you care for your upholstered furniture. Use a spray-on and vacuum-off upholstery cleaner or use an on-site upholstery cleaning service. Washing is not recommended as it can cause uneven shrinkage of the different materials—unless you pre-wash all fabrics prior to sewing. In addition, washing removes the sizing from the cover fabric and the shade will have a greater tendency to wrinkle.

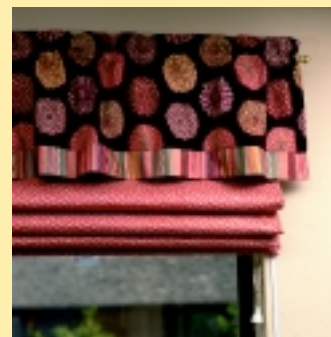
If the shade must be dry cleaned, use *only the non-immersion method*. If the shade is immersed in dry-cleaning solvent, the adhesive on the magnetic tape will probably dissolve, unless, when the shade was made, you had anchored the tape strips with Steam-A-Seam2®. After washing or cleaning your Warm Window shade, spray both sides of the clean shade with a fabric protector.



TOP TREATMENTS

Although your Warm Window shade looks great alone, you might wish to add a top treatment to complement the room décor. When considering a top treatment, keep in mind the estimated stack, the amount of space your shade will occupy when it is opened. If the design of your top treatment will require the shade to be fully raised to hide beneath it, be sure to allow adequate space. Your valance rod or cornice must project far enough from the wall so that it won't interfere with fully raising the shade.

Consult the chart below to determine the width and depth of stack created by the length of your shade.



SHADE STACK DIMENSIONS (IN FULLY RAISED POSITION)

If you are adding a valance or cornice to your window treatment, use stack width to determine the distance the valance must project from the wall.

Shade Length	Stack Depth	Stack Width
3 ft.	7"	4 1/2"
4 ft.	8"	4 1/2"
5 ft.	9"	4 1/2"
6 ft.	10"	5"
7 ft.	11"	5"
8 ft.	12"	6"
9 ft.	+14"	6"



ROMAN SHADE MATERIALS CHART

Width	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"	
Length	4	4	4	5	5	6	7	8	9	10	11	12	13	Number of Pulleys or Screw Eyes
Up to 32"	6	6	8	10	11	13	14	16	19	23	27	31	36	Yards Cord
	12	16	20	24	24	28	28	32	36	40	44	48	52	Rings
	16	16	16	16	16	16	16	16	16	16	16	16	16	3.5" Magnetic Strips
	9	10	11	12	13	14	15	16	17	19	21	23	25	Feet Continuous Magnetic Tape
Up to 40"	7	7	9	12	12	15	15	18	21	25	30	34	39	Yards Cord
	16	16	20	24	24	28	28	32	36	40	44	48	52	Rings
	20	20	20	20	20	20	20	20	20	20	20	20	20	3.5" Magnetic Strips
	10	11	12	13	14	15	16	17	18	20	22	24	26	Feet Continuous Magnetic Tape
Up to 48"	8	8	11	13	14	17	17	20	24	28	32	37	42	Yards Cord
	20	20	25	30	30	35	35	40	45	50	55	60	65	Rings
	24	24	24	24	24	24	24	24	24	24	24	24	24	3.5" Magnetic Strips
	11	12	13	14	15	16	17	18	19	21	23	25	27	Feet Continuous Magnetic Tape
Up to 56"	9	9	12	15	15	18	19	22	25	30	35	40	46	Yards Cord
	24	24	30	36	36	42	42	48	54	60	66	72	78	Rings
	28	28	28	28	28	28	28	28	28	28	28	28	28	3.5" Magnetic Strips
	12	13	14	15	16	17	18	19	20	22	24	26	28	Feet Continuous Magnetic Tape
Up to 60"	10	10	13	16	18	20	21	24	28	33	39	43	49	Yards Cord
	28	28	35	42	42	49	49	56	63	70	77	84	91	Rings
	30	30	30	30	30	30	30	30	30	30	30	30	30	3.5" Magnetic Strips
	13	14	15	16	17	18	19	20	21	23	25	27	29	Feet Continuous Magnetic Tape
Up to 68"	11	11	14	18	18	22	22	26	30	35	41	46	52	Yards Cord
	28	28	35	42	42	49	49	56	63	70	77	84	91	Rings
	34	34	34	34	34	34	34	34	34	34	34	34	34	3.5" Magnetic Strips
	14	15	16	17	18	19	20	21	22	24	26	28	30	Feet Continuous Magnetic Tape
Up to 76"	12	12	16	19	20	24	24	28	32	38	43	49	56	Yards Cord
	32	32	40	48	48	56	56	64	72	80	88	96	104	Rings
	38	38	38	38	38	38	38	38	38	38	38	38	38	3.5" Magnetic Strips
	15	16	17	18	19	20	21	22	23	25	27	29	31	Feet Continuous Magnetic Tape
Up to 84"	13	13	17	21	21	25	26	30	35	40	46	52	59	Yards Cord
	36	36	45	54	54	63	63	72	81	90	99	108	117	Rings
	42	42	42	42	42	42	42	42	42	42	42	42	42	3.5" Magnetic Strips
	16	17	18	19	20	21	22	23	24	26	28	30	32	Feet Continuous Magnetic Tape
Up to 96"	15	15	19	24	24½	29	29	34	39	45	52	58	65	Yards Cord
	40	40	50	60	60	70	70	80	90	100	110	120	130	Rings
	48	48	48	48	48	48	48	48	48	48	48	48	48	3.5" Magnetic Strips
	18	19	20	21	22	23	24	25	26	28	30	32	34	Feet Continuous Magnetic Tape
Up to 108"	17	17	22	27	30	32	33	38	44	50	57	64	72	Yards Cord
	48	48	60	72	72	84	84	96	108	120	132	144	156	Rings
	54	54	54	54	54	54	54	54	54	54	54	54	54	3.5" Magnetic Strips
	20	21	22	23	24	25	26	27	28	30	32	34	36	Feet Continuous Magnetic Tape
Up to 124"	19	19	24	30	30	36	36	42	48	55	63	70	78	Yards Cord
	52	52	65	78	78	91	91	104	117	130	143	156	169	Rings
	62	62	62	62	62	62	62	62	62	62	62	62	62	3.5" Magnetic Strips
	22	23	24	25	26	27	28	29	30	32	34	36	38	Feet Continuous Magnetic Tape

BALLOON

SHADES

The balloon style lends a fuller, softer, untailored look to your Warm Window shade. The fullness is achieved by gathering the fabric across the top and creating poufs at the bottom with shirring tape. This type of Warm Window shade requires about twice as much decorator cover fabric as the Roman Shade.



HOBBLED

SHADES

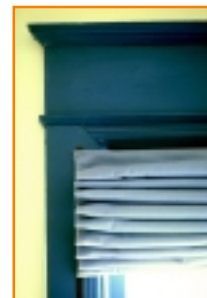
Unlike the Roman shade, which is pleated only when open, the Hobbled shade maintains its soft folds even when the shade is lowered. The folds add interest and depth to the shade, making the style especially attractive for plain or subtly textured fabrics.



Explore the Warm Company
Internet site for these and more inventive
ideas using Warm Window.

www.warmcompany.com

Shades for Comfort

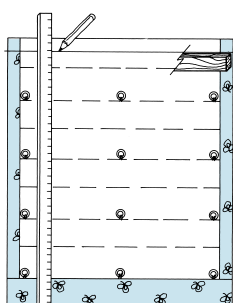


What do
window treatments
have to do with
saving energy?



See for yourself with Warm Window® - the Insulated Shade System designed to make your home more comfortable and energy efficient year 'round in any climate.

Shades for Comfort is the complete guide to making Warm Window Roman and side-draw shades to fit any window. In it you'll find easy to follow step-by-step instructions for measuring, making and installing Warm Window shades. Plus, you'll get timesaving no-sew tips, handy worksheets and dozens of creative ideas for adding warmth and style to your home with Warm Window.



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Manufactured by:
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954 East Union St.
Seattle, WA 98122

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