Pleated Sunburst
**Pleated Sunburst**

- Sunbursts made out of sheer fabric are usually 3 - 4 times fullness.
- Sunbursts made from regular fabric with lining are usually 2 - 2½ times fullness. Fabrication instructions are the same when lining is used. Lining cuts will be the same as face fabric cuts. Face fabric & lining will be treated as one fabric when fabricating.

1. **Yardage:**

<table>
<thead>
<tr>
<th>Size</th>
<th>118&quot; Fabric Yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 45&quot; FW</td>
<td>2.00</td>
</tr>
<tr>
<td>46&quot; to 75&quot; FW</td>
<td>5.5</td>
</tr>
</tbody>
</table>

Yardage Calculation: FW of Arch x 3.25 = _____ ÷ 2 = _____ x 3.5 = _____

Formula: Width of arch multiplied by 3.1416, divided by 2 (half of a circle) = distance around wood arch.

Example: Arch width is 45": 45" x 3.1416 = 141.37" ÷ 2 = 70.68" x 3.5 (fullness) = 247.38".

250" is amount needed for 3½ x fullness. (3.1416 is rounded to 3.25 in calculations) (See dia. 5 & 6 for further clarification on how fabric fullness is used on arch. The right half of fabric represents 118” & the left side represents 118” of fabric.)

2. **Face fabric cuts:**

**Width:** Cut sheer fabric 20" wider than width of arch. (102" or 118" sheer fabric can be used.)

1. When using 118" fabric, only one width of 118" fabric would be needed; however, sunburst would not be exactly 3.5 x fullness. Cut length of sheer fabric along selvage edge
2. After sheer fabric is fan folded & tied, each side is 118" of sheer fabric. (see dia. 5 & 6)

**Fullness:** Smaller arches will use only one width of 118” fabric. Larger arches require multiple widths of fabric sewn together. (see dia. 1 & 2)
3. **Fabrication:**

1. Fold fabric in half with raw edges together & press fold. Press line marks center of fabric & will serve as the line for fan folding. *(see dia. 3)*

2. Before fan folding fabric, fold fabric in half, then in half again & mark all folds on both ends. *(see dia. 4)* *(This distributes fabric evenly when mounting.)*


4. After fan folding, use a nylon tufting twine *(available from any upholstery supplier)* & tie center very tight. *(see dia. 5)*

5. Pull up both selvage sides of fabric to meet, then serge from top down to center. *(see dia. 6)*
4. **Frame:**
   1. Cut a 2" frame from ½" plywood or OSB. *(see How To's – Workroom/Wood for cornices)*
   2. For an inside mount, frame should be cut ¼" smaller than height & width of arch.
   3. Measurements should be very accurate. Most frames can be made without a template, if measurements are only ½" - 1" off from being true.

   **Example:** If arch is 18½" H x 36" W *(see dia. 7)* or arch is 18" H x 36½" W *(see dia. 8)*, these arches are still basically true. The left diagram is just ½" taller in height & right diagram is 1" shorter in height.

5. **Preparing for mounting:**
   1. Lay arch frame on blackout lining.
   2. Trace around plywood|OSB & cut. Inside area of arch is also cut out. *(see dia. 9)* This creates a backing to cover raw edges of fabric on backside of frame and allows pleating of sunburst to show from outside.
   3. Cut on inside of pencil line. Blackout lining should be slightly smaller than frame.
   4. Cut several 1½" strips on bias from a 100% cotton lining. *(Use 100% cotton lining to prevent strips from raveling.)*
   5. Mummy wrap entire arch with strips. *(see dia. 10)* *(Pull tight while wrapping.)*
   6. Lightly mark center of arch at top & bottom with pencil > then mark ½ of that. **Note:** When arch is larger than 40", mark ½ of those. Repeat for both sides of arch. *(see dia. 10)*
   7. **Tip:** Lay a string along edge on one half of frame > mark top center & bottom of string > fold string into quarters or eights *(use eights for larger arches)* > lay back on arch > mark edge of frame > repeat for other side.
Mounting:
1. Lay tied area of pleated sheer on bottom of arch at center mark. (see dia. 11)
2. Use tufting twine & tie pleated fabric to frame. (tufting twine available from upholstery supplier – see Sources/Upholstery suppliers)
3. Staple fabric to front side of wood frame on each side of tied area. Staples will be hidden by embellishment.
4. Cut a mounting stand from ½" plywood|OSB|MDF. (see Quick Tips – Workroom/wood) (see dia. 12)
   This stand can be used for all future arches & helps to prevent distortion of wood frame.
5. Lean stand against table for mounting.
6. Draw a center line down entire stand with a black permanent marker. (see dia. 12)
7. Draw a temporary height line across stand, with a pencil. Measure from top of stand down to mark height line. (see dia. 12)
8. Place mummy wrapped arch frame & plywood stand even at top > line up center marks > from backside of stand, screw two screws through stand & arch frame. (see dia. 13)

10. Note: For sunburst made from fabric & lining, pleats should be spaced 1" - 2" apart. Sunburst with lining should be no more than 2 - 2½ times fullness of frame.
11. Be very careful not to distort frame when pulling pleats tight. For large arches, a temporary brace should be placed in center of frame. (1 x 2 can be used as a brace.)
12. Use large push pins & pin each pleat on edge of plywood frame. (see dia. 13)
   a. Do not pin on front of frame. Pinning on front of arch could damage fabric. Make sure push pins to do have burrs.
   b. Note: Line up markings on board with markings on sheer.
13. Turn stand around. Staple as many pleats as possible on backside of frame. (Keep pleats going the same direction.)
14. Carefully remove arch from stand.
15. Staple remaining pleats on backside of top area. (Before stapling, measure height to make sure frame has not been distorted.)
17. Glue piping around entire edge of frame so that cord in piping is to the front of frame. Seam line on piping should be at front edge of frame. Staple excess lip to backside of frame. Piping will conceal all light gaps & gives a finished edge.
18. Glue blackout lining on backside of frame to cover all raw edges. (see step 5) Gimp can also be glued along edges of blackout lining.
Sunburst Embellishment:
1. Cut a piece of interfacing smaller than desired size of embellishment, i.e., 3" x 6".
2. Fabricate one of the following embellishments.
3. Tack embellishment to sunburst in several places.

Option 1 - Rosettes:
1. **Medium rosette**: Cut a strip 5" x 118".
2. **Small rosette**: Cut a strip 4" x 80".
3. Fold strip in half lengthwise. Serge raw edges, tapering off at fold. (see dia. 14)
4. Starting at tapered edge, gather entire length of piece.
5. This piece can be used to make a spiral type rose or a zigzag rose. Spiral method; start spiral at bottom center of interfacing. (see dia. 15 & 16) Zigzag method; start zigzagging at left side of interfacing. (see dia. 17)
6. Cut half circle shape from interfacing for a regular shape arch. For eyebrow arches, cut an elongated half circle from interfacing.
7. Began gluing rose strip in spiral or zigzag pattern onto a piece of interfacing.

Option 2 - Choux rosette:
1. Cut a 30" - 40" circle.
2. Gather edge of circle. Circle will look like a shower cap. Gathered area is the back of rosette.
3. The tighter the edge is gathered, the smaller the rosette.
4. Attach gathered circle to interfacing by using a tacking machine or hand tacking in several places. Continue tacking until desired look is achieved.

Option 3 - Braided Knot: *(a tailored look)*
1. Use 16/32 cord for braid at bottom of sunburst.
2. Cut 3" strips of fabric on bias. Cover cording. (see How To's – Piping/encased)
4. Make embellishments larger for larger arches. Use a larger cord & make length longer also.