

AlphaSorb® Acoustic Foam Round Hanging Baffle

Installation procedures for baffle accessories may vary from manufacturer to manufacturer. For specific accessory component information, detail drawings, CAD design assistance, detailed information or other technical services, contact the manufacturer. The following information provides general notes and installation instructions for AlphaSorb® Acoustic Foam Round Hanging Baffles.

Note: If significant changes to structure are to be made, such as mounting cables into framing members, such installation impacts appropriately land in the purview of a structural engineer or general contractor licensed in the state where installation occurs.

Installing 2-7/8" (recommended) 316 stainless corkscrew hangers in a Round Hanging Baffle for vertical application:

1. Corkscrew hangers are to be installed in the field by an approved, licensed contractor. Wire/cables and cable mounts/anchors to be provided by installer.
2. Mark the center point of each baffle at end(s) to be attached.
3. Center corkscrew hanger over the center point. Hold hanger vertically and gently press hanger until the corkscrew hanger penetrates foam, turning in a clockwise motion. See **Figure 1**, below:
4. Turn corkscrew hanger clockwise until the top coil in each corkscrew hanger compresses the surface by approximately 1/16".

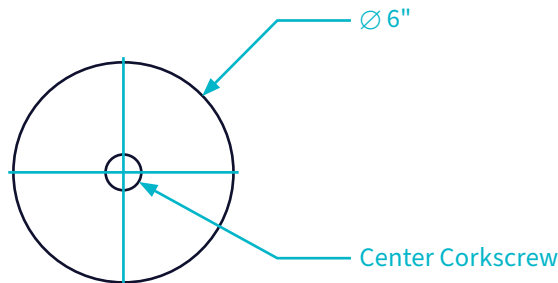


Figure 1: Center point of 6" diameter baffle

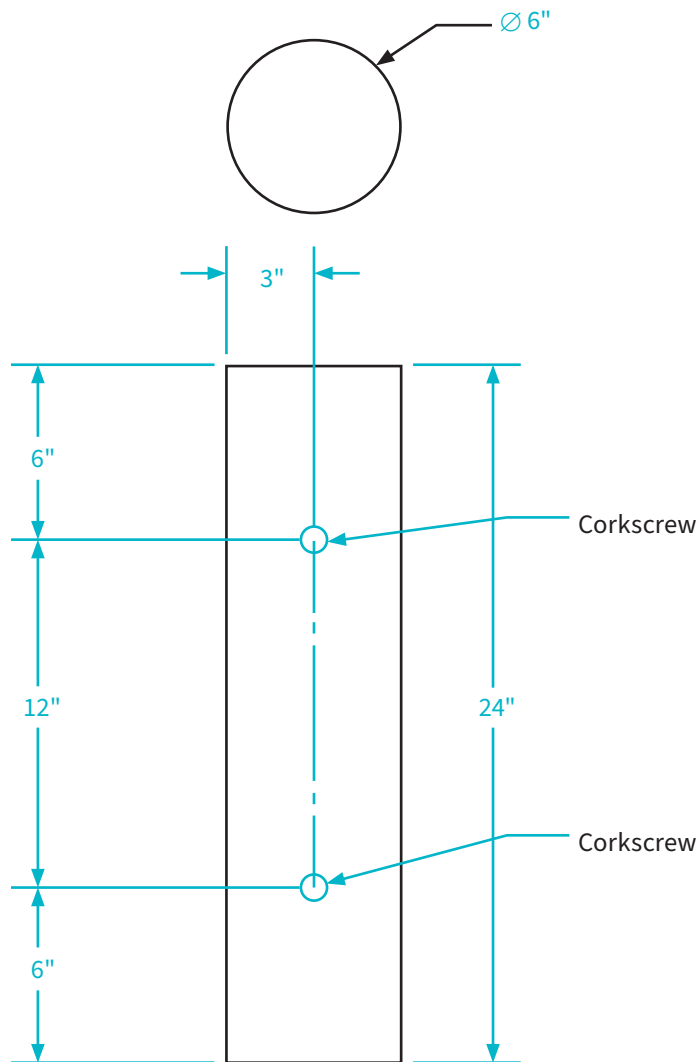
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Installing 2-7/8" (recommended) 316 stainless corkscrew hangers in a Round Hanging Baffle for horizontal application:

1. Corkscrew hangers are to be installed in the field by an approved, licensed contractor. Wire/cables and cable mounts/anchors to be provided by installer.
2. For horizontal application, it is important to notify manufacturer of horizontal installation intentions. Therefore, each standard round hanging baffle would be equipped with two (2) 27/8" long corkscrew hangers. Use drawing in **Figure 2** below for reference.

Figure 2: Corkscrew locations for 24" tall round hanging baffle



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Ceiling — Hanging Cable from Joists and/or Trusses:

1. Round baffles can be wire/cable tied directly to the top or bottom of joists and/or trusses. Baffles attached to the top of the joists will hang beside the joist, and baffles attached at the bottom will hang below the joists.
2. Use a minimum 1/16" wire, cable or lightweight chain to suspend baffles from joists or trusses.
3. Attach wire/cable from the structural ceiling by looping the wire/cable around ceiling joists or trusses.
4. Thread the tie wire/cable through the grommet or eye hook and then loop around the joists or trusses.
5. Twist the wire to complete connection.
6. Follow best practices for structural mounting into framing members. Such installation impacts appropriately land in the purview of a structural engineer.

Wall — Hanging Cable from Wall to Wall:

1. Determine the length of cable required to hang it across the room.
2. Attach one end of the wire/cable to one wall or I-beam, where required, using a welded or bent eyebolt, and if necessary, eye turnbuckles for additional structural horizontal support.
3. Use same attachment method for opposite wall and properly tighten.
4. Optional: Install center support hooks or eyes towards center of structural ceiling to counter cable sag. Amount and specific locations of center supports to be determined by structural engineer or licensed contractor.
5. Slip eye loop of corkscrew hanger over wire/cable. Turn eye loops perpendicular to the baffle locking the cable in place. If a center ceiling support is employed, slide baffles from each end of the cable towards the center.
6. Slide baffle across the cable. For a nice, even dispersion across the wire/cable span, use plastic cable spacers for

desired spacing. The spacers can be used on the ends of cables to prevent baffles from knocking into objects, and between baffles to pave a way for HVAC ductwork and light fixtures.

7. Follow best practices for structural mounting into walls. Such installation impacts appropriately land in the purview of a structural engineer.

Baffle Clusters:

1. Position 3 round hanging baffles against one another and at the top of the baffle, with a marker make a small mark atop the baffle where the baffles meet. See **Figure 3**.
2. Repeat Step 1 at bottom of baffles.
3. Take the marker and with a straight edge, draw a line from top mark to bottom mark.
4. Apply no more than 1/4" bead of adhesive along the marked line.
5. Press baffles firmly together for a minimum 1 minute.
6. Repeat steps 1–5 until the desired # of baffles per cluster is complete.
7. Evenly dispersed, directly in the center of each baffle insert 2 corkscrews for clusters of 2–4 baffles, 3 corkscrews for 5–7 baffles, 4 corkscrews for 8–10 baffles, 5 corkscrews for 11–13 baffles, etc. See **Figures 3–7**.

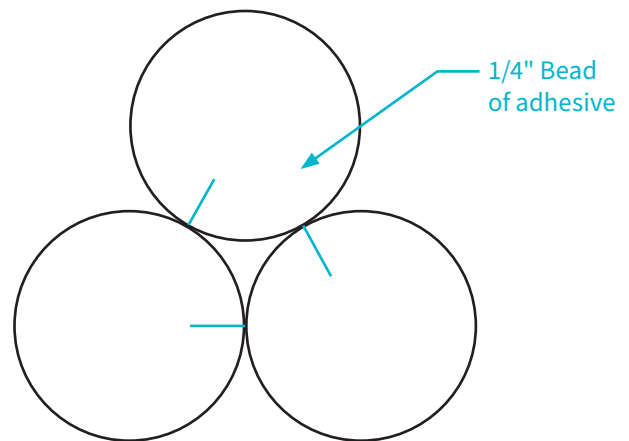


Figure 3: 3 round baffle pattern with adhesive lines

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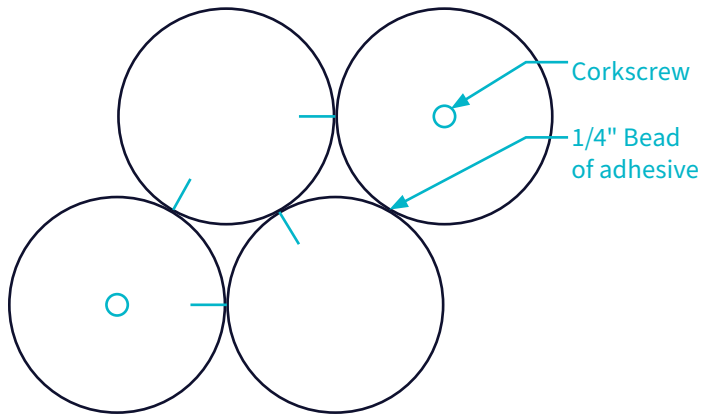


Figure 4: 4 round baffle cluster with 2 corkscrews

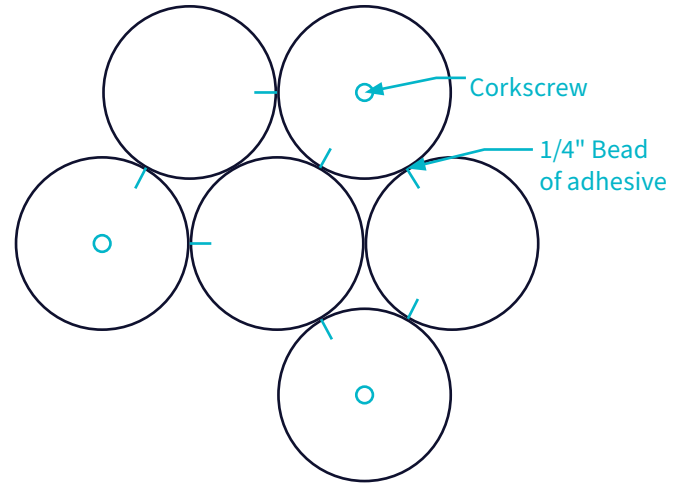


Figure 5: 6 round baffle cluster with 3 corkscrews

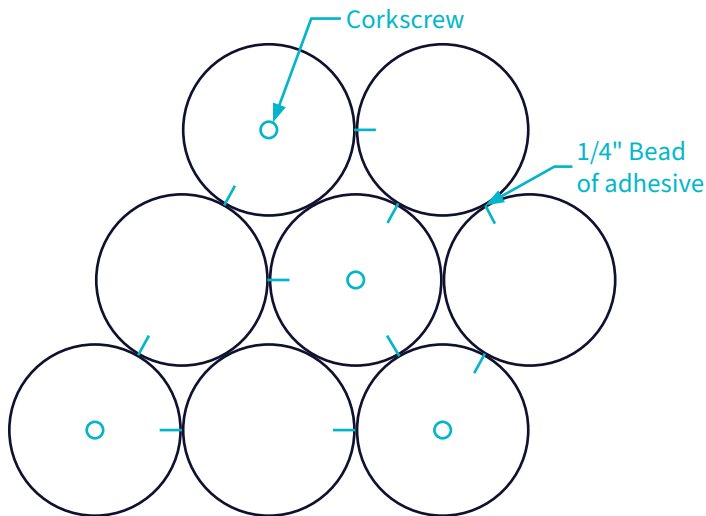


Figure 6: 8 round baffle cluster with 4 corkscrews

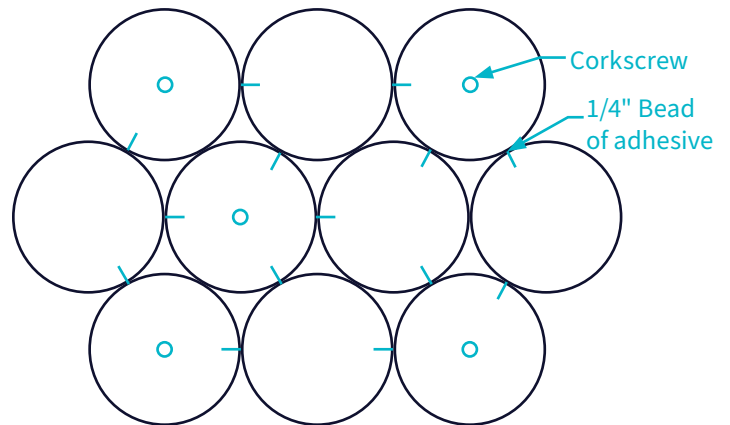


Figure 7: 10 round baffle cluster with 5 corkscrews

General Notes:

1. Round Hanging Baffles can be suspended vertically or horizontally.
2. Round Hanging Baffles come in white or light-grey, and are constructed of open-cell melamine foam.
3. Custom coatings to suit most color palettes available upon request.
4. Store Round Hanging Baffles out of direct UV sunlight.
5. Avoid hanging Round Hanging Baffles greater than 10 feet below the structural ceiling. Extensive cabling/chaining will cause baffles to swing if suspended between HVAC air streams.

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6. Custom sizes are available, but typical “stock” size of baffles is a 6" diameter and 24" in length. See **Figure 8**, below.
7. Store and protect baffles from the elements and from damage.
8. Suspension hardware is not to be pre-installed.
9. Do not subject baffles to critical edge lighting without first consulting Acoustical Solutions.
10. If baffles are going to be exposed to corrosive fumes (e.g. aquatic center) always use 316 stainless steel corkscrews, wires/ cables and other hardware.
11. Always consult with a structural engineer for concerns with structural integrity. Acoustical Solutions assumes no responsibility for incorrect installations

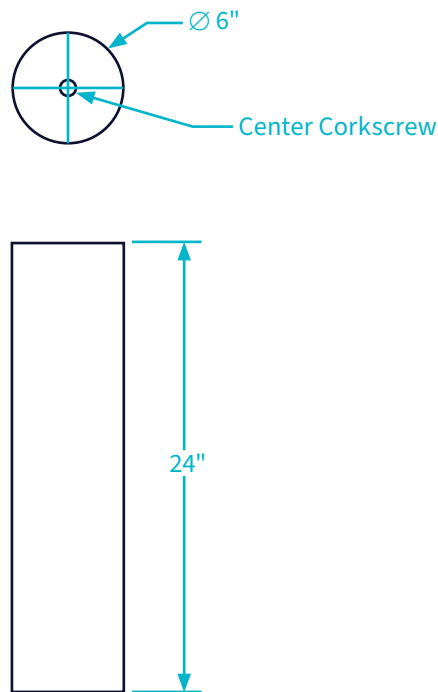


Figure 8: Round Hanging Baffle typical dimensions

List of Accessories

- Nominal 1/16" to 3/32" uncoated cable, wire hanger or lightweight chain
- Wire/cable clamps
- 1/4" or 3/8" eyebolts (2 per cable if mounted from wall to wall)
- Standard galvanized rope thimble cable protector
- Turnbuckles (if deemed necessary)

Please consult Acoustical Solutions for technical assistance to suit your specific project requirements.

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