

THREE COMMON INSTALLATION OPTIONS

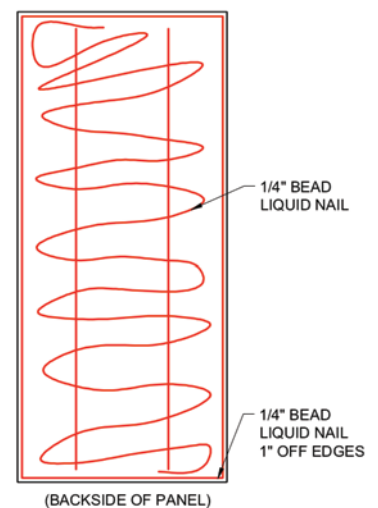
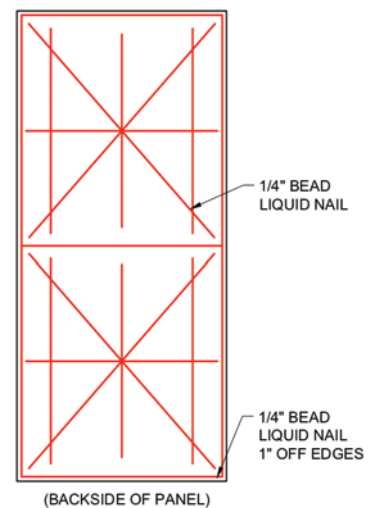
- 1) Direct Adhesion
- 2) Z-Clips
- 3) Stand-Offs

DIRECT ADHESION

NOTE: Verify that your substrate will hold an adequate bond to the recommended adhesive. If in doubt about a coating or a finish already in place, an adhesion mock up test is recommended before you begin.

- 1) Cut, scribe and dry pre-fit all GiosFelt panels as necessary.
- 2) Once all of the panels have been properly sized and trimmed, begin the applying the adhesive to the BACK SIDE (ONLY) of each panel. Use only Liquid Nails LN710 or LN2000 adhesive tubes*.
- 3) Place the Liquid Nails cartridge into caulking gun, cut the nozzle to produce a 1/4" thick bead and puncture the inner seal. A 1/4" bead will cover approximately three 4' x 9' sheets per 9 fl oz tube.
- 4) Apply a bead around the entire perimeter of the BACK of the panel. Place the bead to be no more than 1" in from the perimeter at any point.
- 5) Apply a zig zag or diagonal pattern of additional adhesive across the central sections of the panel, within the perimeter bead. See the images on the right for guidance.
- 6) Apply the panel to the substrate within 20 minutes and monitor your adhesive to prevent it from skinning over. Set the panels into place and smooth with open palms.
- 7) Remove the panel from the substrate and hold it off the surface for one minute. Then reset the panel into place and smooth with firm pressure to set it. Use mechanical fasteners if you see the need to help this stay positioned while the adhesive remains wet.
- 8) Install all panels by maintaining the identical orientation for each panel installed. Do not reverse or flip panels.

* Never use solvent based contact adhesives or any unauthorized adhesives.

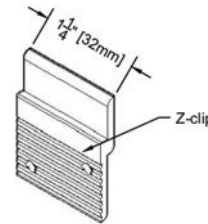


Z-CLIP

NOTE: Determine if you are grouping panels so they are flush with one another or installing them independently.

You will be supplied a number of Z-Clip sets which are appropriate for the length of your panel. Each set will be 72"L and will need to be trimmed based on which method (single or multiple) you will be using for installation.

- 75" - 108" L panels will require (4) Z-Clips sets, spaced evenly.
- 41" - 74" L panels will require (3) Z-Clip sets, spaced evenly.
- Panels which are less than 41" L will require (2) Z-Clips sets.

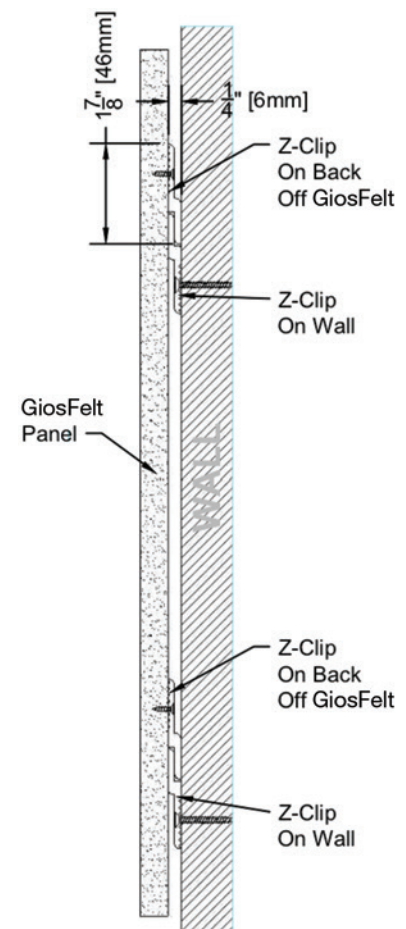


Z-CLIP: SINGLE SHEET

- 1) Trim each Z-Clip set to be a total of 6" less than the final width of your panel. To cut the Z-Clips, you can use a metal cutting blade, in a chop-saw, a hacksaw or a jig-saw. Position each Z-Clip so both the left and the right sides of the panel extend beyond the final clip length and allowing 3" of panel overhang on each side.
- 2) Place the upper-most and bottom-most clips first. These will each be positioned to be 3" in from the horizontal edges of the panel at the top and the bottom.
- 3) Place your remaining Z-Clips (two of those if panels are larger than 74" and one of those if shorter than 74") so that the next clips are evenly spaced in the space between the two edge Z-Clips. On full 9' panels, that means you would typically have a gap of 34" in between the two remaining Z-Clips.

Z-CLIP: MULTIPLE SHEETS

- 1) The vertical positioning of your Z-Clips will remain as described above. (Either 4, 3 or 2 sets, depending upon the height of your panels).
- 2) Arrange the uppermost and the bottommost Z-Clips to be 3" in from the top and bottom of the horizontal edge of the panel.
- 3) Trim the combined length of the Z-Clips (that will form a combined horizontal line) in order to remove 6" from the total width of the group of panels. Each horizontal "line" of Z-Clips will be positioned so they are 3" in from the left most side and 3" in from the right most side of the perimeters of the panel group and to continuously run across the full span of the panel group.
- 4) Position the Z-Clips so that they bridge all seams between adjacent panels. Plan where the Z-Clips will adjoin so their seams will be no closer than 8" to any panel seam placement, trimming if necessary.
- 5) Follow the same guidelines for each placement and spacing between of the horizontal "lines" that will be needed per your height of panel as listed above.



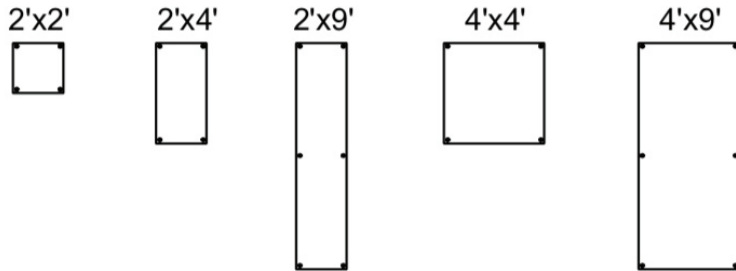
Z-CLIP: ANCHORING

NOTE: The goal is to mount the Z-Clips level so the long sides of the panels (usually vertical) are then aligned. Allow a suitable vertical clearance in order to lift the panels up and over the wall side of the clip set half and then lower the panels securely into position for mounting.

- 1) Install all wall side Z-Clip halves to the wall and then transfer those placements onto the back of the panel using a story pole.
- 2) Begin by mounting half of the first Z-Clip set to the wall behind the first panel. Orient the clip on the wall to be facing upward (the open gap should be facing up) and the bottom leg of the clip is against the drywall. Install the uppermost Z-Clip so that the top edge of the clip is no closer than 3" in from the top edge of the panel.
- 3) The clips should each be:
 - Parallel to the horizontal edges of the panel and thus level.
 - Insert and centered left to right so as to allow a 3" gap at each left and right side of the panel.
 - Pre-drilled at the correct placements to accept #8 screws
- 4) With the wall side of the clip sets established, transfer those placements to a story pole which is the now height (rather than length) of the panel. Note: outlets or cut outs in the panel may require specific adjacent additional supports and or Z-clips to support the panel at that cut out placement.
- 5) You will now use the story pole to determine the suitable placement of the panel side half set of each Z-clip onto the back of the panels.
- 6) Be sure your panels are in the correct orientation (verify the positioning of the sticker on the face side.)
- 7) These half Z-clip sets need to be positioned with the ½" adjustment in mind (so the panel can be raised up and over, then inserted into the wall side half clips.) Adjust your story pole accordingly for this. Mark the placement for each wall side clip on that pole.
- 8) Pre-drill the clip-half with 4 holes which are suggested for anchoring each half clip. Size the holes for an #8 screw.
- 9) Attach the half clips to the panels with their open edges facing downward, using ½" long #8 pan or hex headed screws. Do not over tighten. Pre-drill a ¼" pilot hole of ¾" depth if necessary.
- 10) Raise the panel with the proper number of Z-clips now attached (should be 4 of them in a full sized panel at 9 feet) and bring the panel side clips up and over the wall side clips until they firmly engage and then securely drop into place. This will result in you seeing the ½" allowance gap at the top of the panel along the ceiling line.

STAND-OFFS

- Stand-offs should be no closer than 3" from the edge of panel.
- Stand-offs are available in 3 lengths (distance off the wall): 1", 1.75", 2.5"



NOTE: The total number of stand-offs that will be necessary will be determined by the final dimensions of your panel, per the sizing illustration above. The illustration will define the minimum number of stand-offs which are necessary.

Suitable blocking (chosen in accordance with your length of stand-off) is also recommended as a hidden support and method to prevent caving or curvature of the panels over time.

- 1) Begin by marking the panel back with the placement of each hole for every stand-off that is required. No hole should be within 3" of any perimeter edge of the panel. Using a tungsten carbide bit, drill $\frac{1}{2}$ " diameter holes through the panels for each stand-off placement.
- 2) With all of the panel holes now drilled, determine the precise placement of where the panel is to be installed. With one person holding the panel in place (level and aligned), a second person will mark the substrate with the precise placement of each panel hole.
- 3) Pre-drill the substrate to allow the anchoring of the stud-fixing pin of the stand-offs to be attached to the blocking under your substrate. We do not recommend that you anchor into only gypsum board to suspend the panels. Blocking under the gypsum board is always recommended if attachment to studs is not possible for each stand-off.
- 4) Secure each stand-off to its appropriate stud-fixing pin, which is attached to the wall.
- 5) Set the panel in place over the stand-off bases and attach the stand-off head caps to secure the panel. Tighten only by hand and do not over tighten.

