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## General Guidelines for installation of Plyboo® Acoustical Panels

Our customers have typically used Monarch Z-Clips to install Plyboo panels and we have heard of few installation issues reported while using this system. If site conditions can not accommodate a Monarch Z-Clips system, others have successfully used a micro screw to penetrate through the panel and attach to a supporting structure. When using this method, for best results care should be taken to pre-drill the face layer and to attach the panel to suitable supports (e.g., studs).

Carefully consider all your installation options because, depending on your particular requirements and limitations, other installation methods and systems may well be better suited. The screw holding power of our Plyboo panel is better than MDF so there are other options for you to consider as well. Because we can only provide the most general installation guidelines, and because the Monarch Z-Clips system can accommodate a cleaner installation and has been reported by our customers to perform in other installations, we describe a typical installation for your consideration.

**Typical Installation of Z-Clips :** The Monarch Z Clip system is tested by Qualtim, a third party testing laboratory. We recommend that you review these test results carefully along with the Monarch Metal webpage <http://www.monarchmetal.com/z-clip-selector-tool/> that contains further detailed installation selection guidelines and installation instructions. In addition to the Monarch installation guidelines, we also recommend the following for your consideration when fastening the Monarch Z-Clip system to the back of your Linear Line Plyboo panels.

Following the spacing recommendations from Monarch, instead of using twelve, 2" clips, use three, 36" length clips evenly spaced horizontally across the back of each panel. The lengths of each Z-Clip should be centered approx. 6" in from the left and right edge of the panel. Each length of Z-Clip will have 5 pre-drilled screw holes. Before drilling or setting screws, lay the Z-Clips in their proper position on the back of the panel and draw a pencil line along the top and bottom edge of the length of the Z-Clip and also mark your 5 holes. Using an 1/8" drill bit, drill into the back of the panel to a depth of 3/8".

Using Loctite PL Premium Polyurethane Construction Adhesive run an 1/8" diameter bead of adhesive 3/8" of an inch in from the top edge of your pencil mark on the panel. It is important to keep the bead of adhesive in the upper edge of the Clip to avoid the adhesive squeezing into the overlap fastening area. If adhesive enters this area, it could restrict the even seating of the two Clips when mounting the panel on the wall.

Now set the Z-Clip strips carefully into place and using an 8 x 1/2" Stainless Steel, pan head, Philips, self-tapping screw, fasten the strips into place. Note as the depth of the screws are relatively short, it is best to screw these in by hand rather than with a screw gun to avoid stripping the panel.

Using the z-clip selector tool at the Monarch Metal web site  
<http://www.monarchmetal.com/z-clip-selector-tool/>

## Find the Right Z Clip

Five simple questions to determine the right  Monarch Z Clip specification

1. What type of Hanging System are you looking for?

HTMLDirect

*Choose: Standard Monarch Z-Clips*

2. How far would you like the installed panel to sit out from the wall (the "projection")?

HTMLDirect

*Choose: 1" projection*

3. How much clearance is there between the panel and the finished ceiling?

HTMLDirect

4. What is the material / substrate and the thickness of the panel being mounted?

HTMLDirect

*Choose: 3/4 inch plywood*

5. What are you mounting the panel to?

HTMLDirect



\*\*\*Please note Item 3 and Item 5 above are to be answered dependent on job site conditions and materials used in wall fabrication.\*\*\*

*Follow Monarch Z-Clip instruction for mounting Z-Clips to the wall, and please observe all Plyboo Guidelines for attaching Z-clips to the back of Plyboo Sound panels.*

Measure and hang Z-Clips on the wall as needed for jobsite conditions and proper Plyboo® Sound panel placement according to Architectural Specifications and field measurements.

Plyboo QuietWall® Acoustical fiberglass can be applied to the wall with the following guidelines:

Before installing acoustical fiberglass please confirm that your wall surface is clean, dry, flat and sound, and free of any debris or contamination that may inhibit proper placement or an adhesive bond. Using Loctite PL Premium Polyurethane Construction Adhesive apply adhesive to the wall as needed. Be sure to test compatibility between your wall surface, and the referenced adhesive before proceeding with full installation. Once adhesive is applied to the wall, carefully place acoustical fiberglass batting on the wall surface by pressing and applying small finishing nails to hold the acoustical fiberglass in place while Loctite adhesive dries.

Once the adhesive has fully dried and cured, proceed hang the Plyboo Sound panels over the QuietWall® acoustical fiberglass by locking the Plyboo Sound Panels into the wall using the installed Monarch Z-clips.

We have successfully performed installations using the above-described method, but as always, please carefully consider your site and installation conditions to make sure these installation options discussed here are suitable for your specific needs.

If you have further questions on installing Plyboo Acoustical panels or our RLS panels, please feel free to contact us at [866.835.9859](tel:866.835.9859).

Best regards,  
Smith&Fong Plyboo  
[www.plyboo.com](http://www.plyboo.com)

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