

infinity wall system

Straight Wall Installation Guide
3' & 5" Radius

INSTALLATION GUIDE:

Infinity Wall System 3ft & 5ft Radius Straight Wall Systems

Please take time to read and understand all steps of the installation before you proceed. We suggest that you test fit your cyc using just a few screws in each part and no glue. After all the parts are tested, reinstall using glue & screws as per the instructions.

If you have any questions please call us at 901-262-9983.

DO NOT try to install our system with ribs or braces!! It will not work and will void your warranty.

The Infinity Wall System is designed to be installed in a minimum amount of time with common hand & power tools. The instructions are intended for sites with concrete floors and framed walls (wood or steel). Installation in studios constructed of other materials will be similar, however, the type of fastener may have to be altered to suit the individual need.

This installation manual is for both the 3 & 5 ft. radius cyc systems. **Drawings show installation of the 3ft. radius sections only**, 5' radius sections are installed the same just the installation dimension is different, 30" for the 3' radius and 60" for the 5ft. radius parts. Make sure you use the right measurements. (**See Laying out the working lines**)

GLUING INSTRUCTIONS:

Start by lightly sanding all the surfaces of the cyc parts that will be glued to the wall, floor, and the mating flanges. This helps the construction adhesive to bond better. When you are installing parts always put a bead of glue down on the wall or floor, about 1" in from the chalk line. When gluing a cyc part to the mating flange of the next part, make sure to spread the glue evenly over the mating flange as this is a tight tolerance joint. The screws can be used to raise or lower the parts till the surface of each is level with the other.

During the actual installation with glue **DO NOT** tighten the screws down real tight. While the glue is drying the screws are used only to hold the parts in place, applying a firm even overall pressure as the glue dries. During the gluing process some glue will bead up around the edges of the parts and between the parts on the mating flange. Wipe up this excess glue so it does not cause problems during the seam blending process. Once the glue is dry, screws can then be tighten. They are a secondary fastener for the parts and needed.

If you are cutting parts use a sharp saw blade design to cut plastic and fiberglass material. Use a dust mask to protect yourself from the fiberglass dust if you are installing our all fiberglass systems, and the cutting parts. Rubbing baby powder onto your exposed skin will keep the fiberglass dust from getting into the pores.

Tools needed:

Power drill
Hammer drill
(for drilling concrete floor with a Tapcon bit.)
Saber saw
(with blade for cutting plastic or fiberglass)
Caulk gun
Chalk line
Tape measure
#2 Phillips driver bit
Several 5/32" Tapcon masonry drill bits
Countersink bit

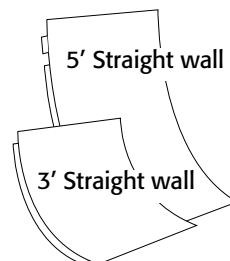
Materials needed:

Construction adhesive *(ie: Liquid nails, PL 4000)* 1 tube for every 3 parts
1" Drywall screws - 10 per part
1/2" Drywall screws - 14 per part
3/16" X 1" Tapcon screws - 10 per part
Primer
We recommend XIM UMA primer (water based) 1-800-521-8894
Drywall compound
Do not use quick set or any fast setting dry wall compounds. The additives in them degrade the adhesion properties of the dry wall compound.

Materials needed to make Horizontal hardpoints:

Plywood cut into strips 6"x96"
The thickness of the plywood required is determined by the thickness of the drywall on your walls. For the 3' radius system use 3/8" ply. for 1/2" drywall & 1/2" ply. for 5/8" drywall. For the 5' radius system use 1/4" ply. for the 1/2" drywall and 3/8" ply. for the 5/8" drywall.

CYC PARTS



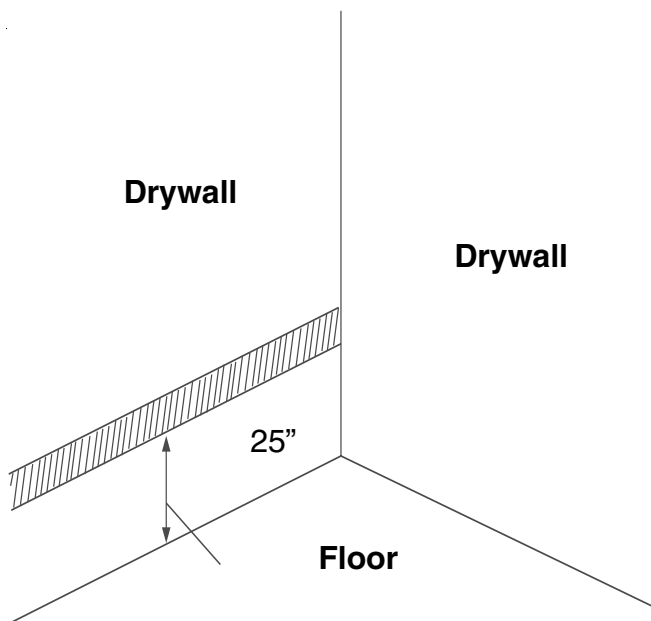
Straight Wall Section

The 3' & 5' radius PVC straight wall sections are not pre-curved parts. They are designed and engineered to be installed on dimension to produce the correct radius that matches up to the pre-curved fiberglass corners.

HOW TO INSTALL HARDPOINTS

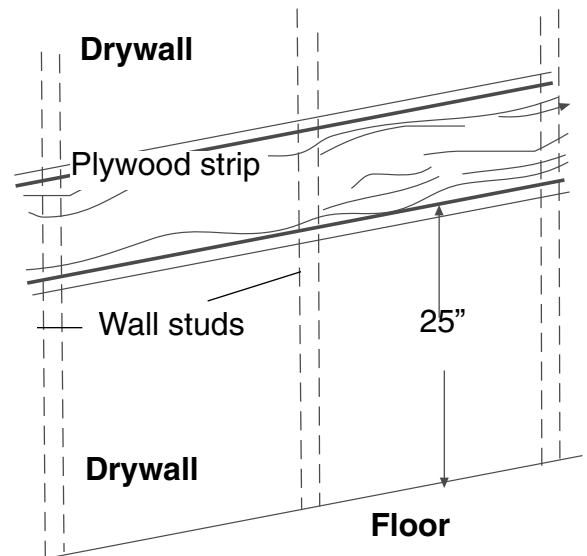
Hardpoints are attachment points that are installed onto the wall studs behind the drywall. Covering the 30" height called for on our 3ft. radius cyc, and covering the 60" height called for on our 5ft. radius cyc.

During construction you can install them as you frame out your walls. On existing walls you need to remove a section of drywall all along the length of the area you plan to cyc.



Measure up from the floor 25" and strike a chalk line. Remove a 6.5" strip of drywall from the wall all along both walls. This space in the wall is where you will install the horizontal hardpoint.

For the 5' radius measure up 55" and remove a 6.5" strip.



Now install the 6" strips of plywood onto the studs in the space where the drywall strip was removed. Install this plywood starting with its bottom edge on the 25" height mark.

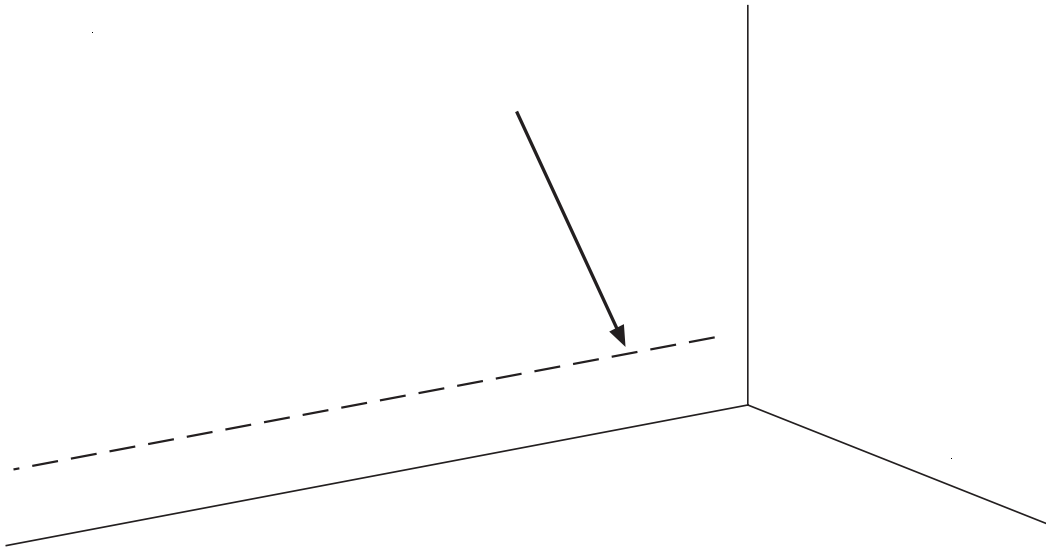
Installation Note: Check the thickness of your drywall and make sure that you are using the correct thickness plywood.

**FOR THE 3" RADIUS USE 3/8" PLYWOOD FOR 1/2" DRYWALL
1/2" PLYWOOD FOR 5/8" DRYWALL.**

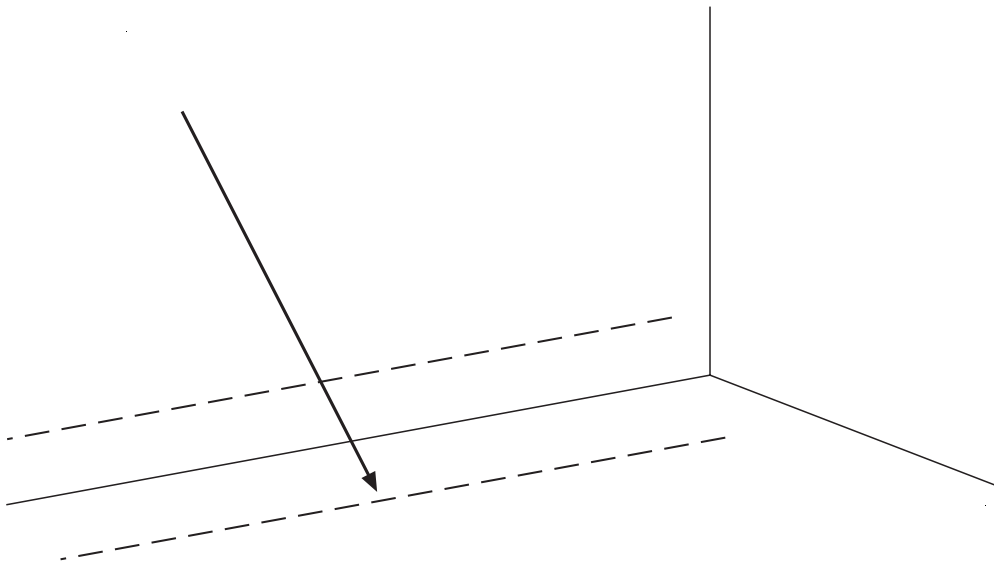
FOR THE 5' RADIUS USE 1/4" FOR 1/2" DRYWALL AND 3/8" FOR THE 5/8" DRYWALL.

LAYOUT OF INSTALLATION LINES

Snap a chalk line along the wall 30" or 60" inches above the floor the full length you intend to install your straight sections. If your are going to install a corner section at a later date leave 3ft. from the end of your part to the corner for the 3ft radius and 5ft. for the 5ft radius cyc.

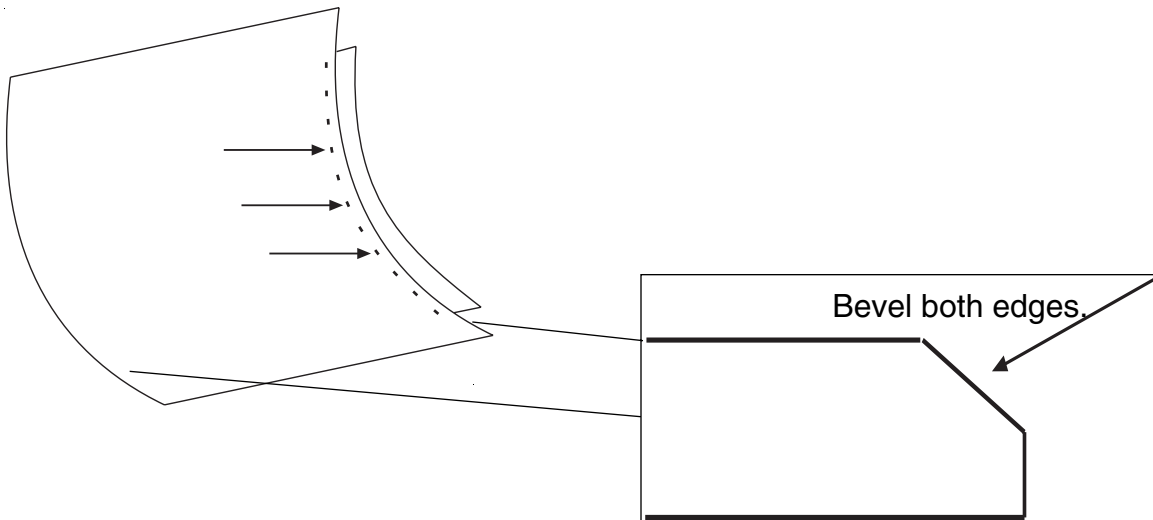


Snap a chalk line along the floor 30" or 60" inches out from the wall.



PREPARING THE WALL SECTIONS

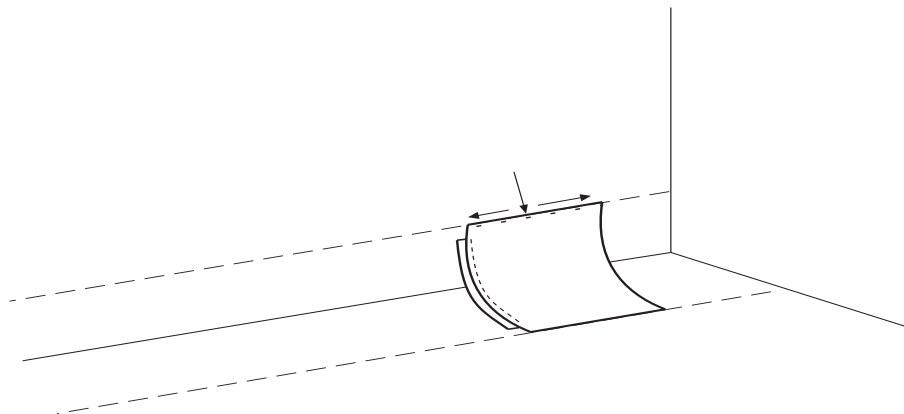
Take each wall section and install 1" drywall screws along the edge next to the mating flange. Next take the small block plane and bevel the side edge of the part by the mating flange and the opposite edge.



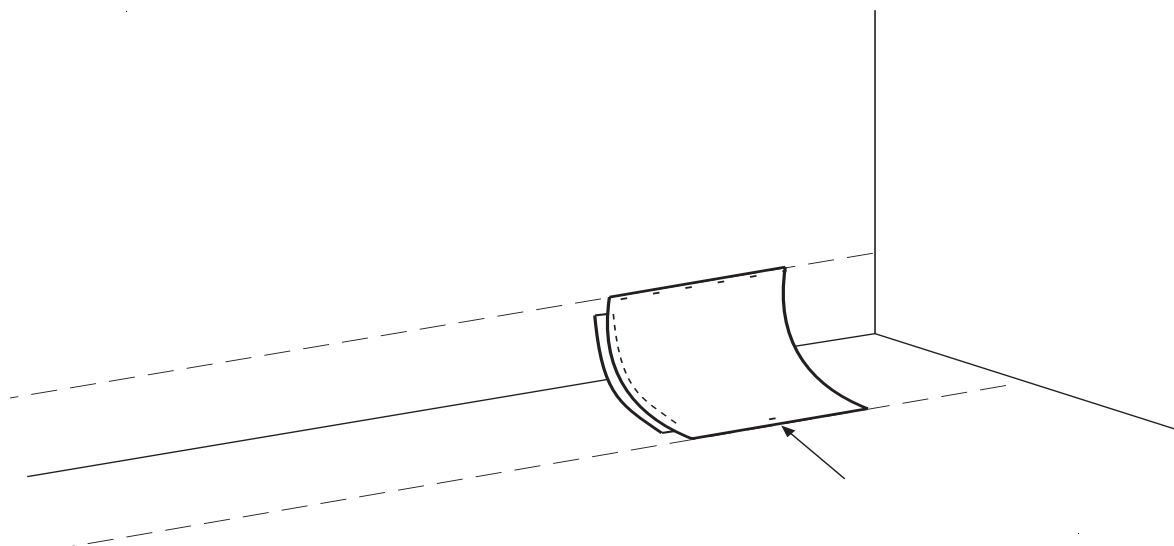
Once this is finished, the next step is to lightly sand the front surface of the part and the mating flange. Then lightly sand a 1" wide band all around the edge of the back side of the part. This helps the glue to hold better. Sanding the front side gives the surface a texture for the primer to adhere to.

INSTALLATION OF STRAIGHT SECTIONS

Step #1 Run a bead of glue 1" down from the chalk line the length of the first section. Position the wall section on the chalk line. **Step#2** Screw a 1" drywall screw 1/2" in from the edge of the part in the middle of the top edge to hold it to the wall. Now working from the middle out install screws every 6" all along the top edge. (*Follow the gluing instructions.*)

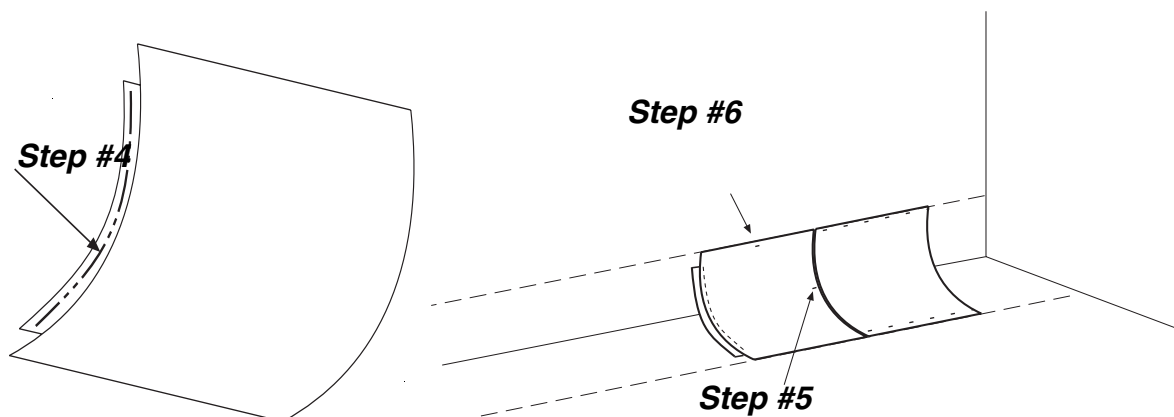


Step #3 Now it is time to install the bottom edge. Position the bottom edge along the chalk line on the floor. Locate a point in the middle of the part. Using a Tapcon bit drill a hole through the part and into the concrete floor, making sure the hole is deep enough so the screw does not bottom out. Now lift the part slightly and run a bead of glue 1" in from the chalk line the length of the part. Install a Tapcon screw into the pre drilled hole. Now make sure the part stays on the chalk line and drill holes every 6" along the edge of the part. Countersink these holes and install Tapcon screws. Now check the edge contour's on both the top and bottom edges of this part. See page 8 for this information.



ADDING THE NEXT OR ADDITIONAL SECTIONS

Step #4 Run a bead of glue down the middle of the matting flange. Then lay the next wall section in place. **Step #5** Locate the middle of the matting flange and screw a 1" drywall screw into both parts. Use the screw as a leveling device to raise or lower the part so the surfaces of each are level and flush. See page 7 to check the contour. (Do not over tighten as this will strip the hole and the screw will spin free) **Step #6** Position the top edge of the part on the chalk line and run one drywall screw in the middle of the top edge to hold the part to the wall.

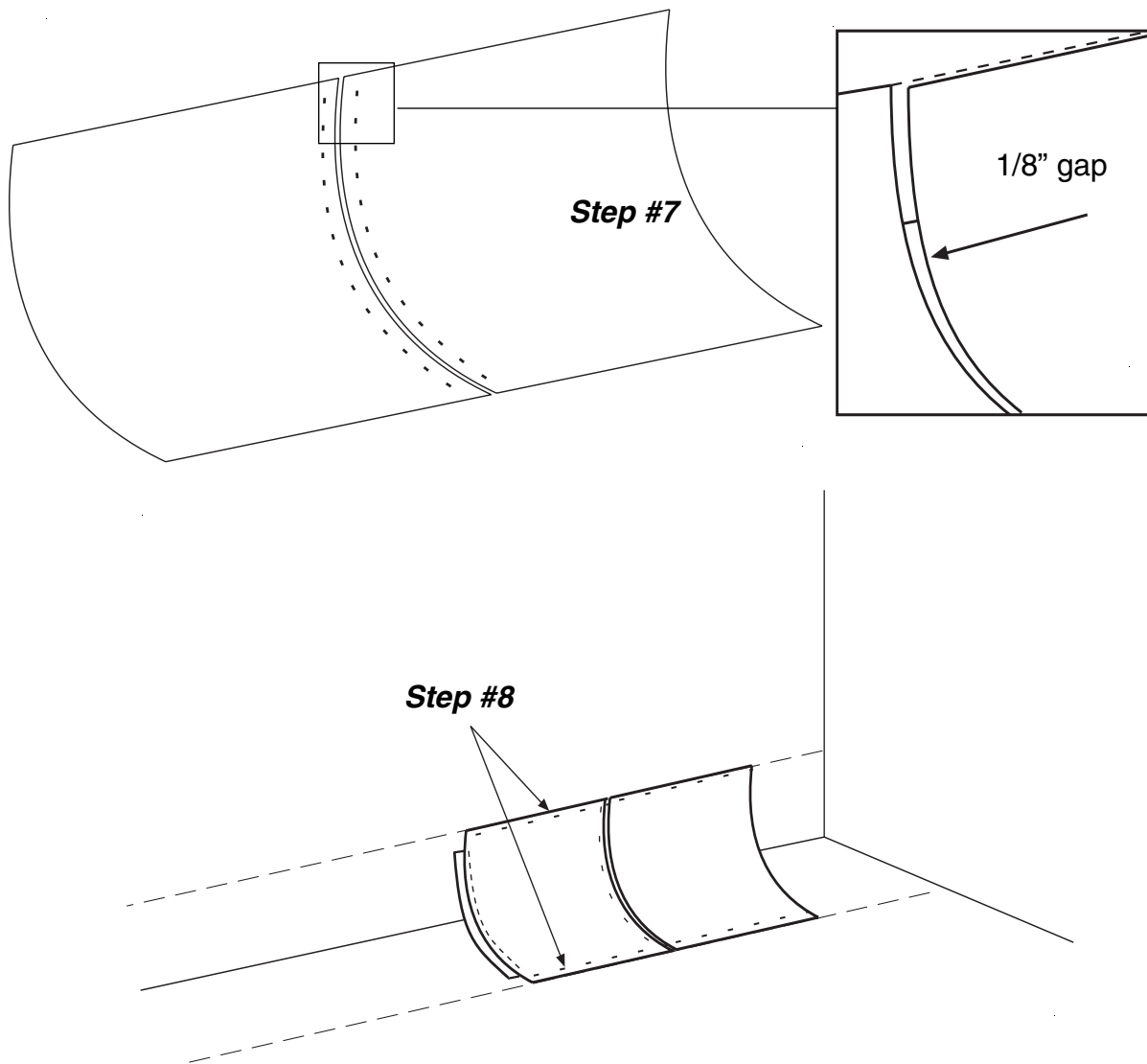


Step #7 Install a 1" drywall screws every 6" along the matting flange. This is a close tolerance joint, make sure that the surfaces of both parts are level with each other, the screw can be used as a leveling devise, raising and lowering the the part till the surfaces are even. Leave a 1/8" gap between the two parts.

When gluing make sure to spread the glue evenly and not to thick on these joints. Check contour as per instructions on page 8.

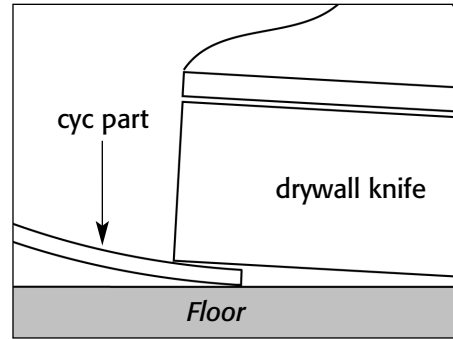
Step #8 Install top and bottom edges as per instructions on page 6, Step #2 and Step #3.

To install more sections follow the same procedure for each. Once the glue has dried on all parts, remove screws and countersink holes and then **reinstall all the screws**. Make sure the heads of the screws are below the surface of the part.

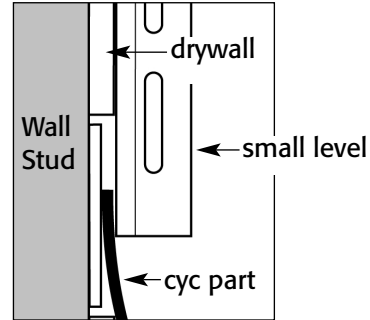


HOW TO CHECK Contours on all floor and wall seams.

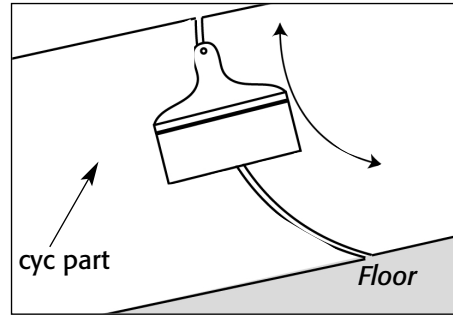
Use the following method to check the contour of both the top and bottom edges of the cyc. Place one corner of a 10" drywall knife about 1" up onto the cyc section and the other edge of the knife onto the floor or wall as shown in drawing #1. Make this contour check every 6" along the floor and wall seams.



On vertical seams use a small level as shown in drawing #2



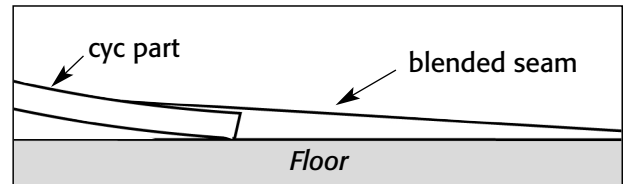
Check that the surfaces of each part are level with each other at each mating flange joint. Use the drywall knife 90 degrees to the seam. Slide it up and down the seam looking for areas where the parts are not level. As shown in drawing #3.



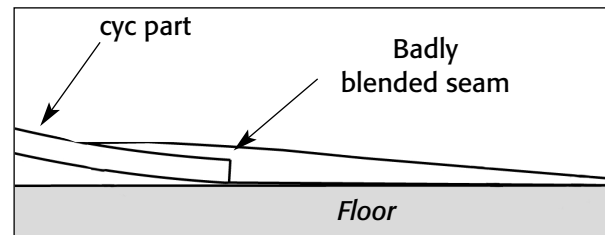
If any of the contour's don't look like the example the possible cause could be, the edge of the cyc is not installed on dimension, top or bottom edges of the part is not parallel to the chalk lines or the wall or floor may not be level or plumb.

How to fill and blend the seams and joints.

The finish seam should look like this.



Finished seam should not look like this. This seam has too much drywall mud up on the part, and the seam is not sanded flat.



It is important to note that filling the seams is slightly different than normal drywall seams. The goal is to form a tapering ramp of drywall mud from the edge of the part out onto the floor or up onto the wall. What you want is a finished blended seam that is both smooth and flat.

Finishing Seams and joints.

Use only the fiber mesh tape on the floor and wall seams DO NOT TAPE the seams were each part mates together!!

The following is the way we recommend that you finish your cyc. Start by placing a small amount of drywall mud on the floor or wall next to the edge of the part. With a 10" drywall knife positioned as shown in the contour checking guide spread and strike off the mud along the seam or edge. This first application will leave a lot of low areas and voids. Let this application of drywall mud dry thoroughly. Check with your 10" knife for high spots along the seams or joints and sand them down.

The second application is the same as the first, except it will require far less drywall mud. Spread the mud over the first coat and strike off the excess. You will still have some low areas. Let this second coat dry. Check for high spots and sand.

The third coat requires you to thin down the drywall mud slightly with water and apply, filling any low spots. Let dry. Check for high spots and sand. Continue to skim,thinned drywall mud over seams and joints until all low areas are filled. Let dry, and sand .

To make sure all seams and joints are flat and smooth sand on a 45 degrees angle one way and then the other. Sanding parallel with the seam will not produce a flat smooth seam. Your final seams will extend out from the top and bottom edges of the cyc parts about 6 to 8".

You are now ready to prime and paint your cyc. **You must !!!** prime the cyc parts , walls and the concrete floor. One product that is very good is XIM UMA Primer made by XIM Products (1-800-262-8469) Call for a dealer near you. Before you prime lightly sand the surface of the cyc parts, this will give the primer a better surface to stick to. Follow the instructions for the primer. When you are ready paint, use a good high quality, exterior grade, flat latex paint.

If you have questions concerning your particular application, please call us. **1-901-262-9383** Thank you for the order.

OPTIONS:

Once all the wall sections for the cyc have been installed, you may leave the ends open or finish with end caps. To make the end caps place a piece of drywall up to the end of the last wall section, draw a line using the top edge of the wall section as a guide. Cut this piece of drywall so it will fit under the last section when flush with the wall and floor. Glue several small blocks of wood on the floor, drywall and the under side of the wall section (recess the blocks to allow for the thickness of the drywall you are using).. Used these as stops as attachment points to glue the end caps to. You should install some type of vent or grate into these end caps.

Some photographers like to have power behind the cyc. During construction electrical lines (follow your local codes for this) can be run on the wall behind the cyc sections you are installing, stopping about 6" to 8" before the first joint were the corner and the first section are joined. (If possible place the outlets on the floor about 12" away from the wall) Cut a small 6" to 8" access opening in the wall section, over the outlets. Make a cover plate out of the material you just cut out. By gluing small blocks of wood all around the under side of the opening, with about 1/2" sticking out. These wooden blocks act as a lip to hold the cover in place. During a shoot if this area is going to show, tape over the seams of the access cover and paint them to match the background.

Your cyc parts are warranted to be free from defects in material and workmanship for a period of one year from the date of purchase. Should any defect be found Infinity will furnish you with a replacement part at no cost. This warranty will be invalid if the system has not been installed according to the instructions provided, or if it has been damaged due to abuse. There are no other warranties expressed or implied.