

**ASSEMBLY
INSTRUCTIONS
SYSTEM SUPER 5EZ**

Congratulations on your decision to use the world’s most advanced and user-friendly cyclorama system. We have taken a great deal of care to create and ship your cyc, so please take a minute to visually inspect the crate before you sign the receipt to accept the shipment. Are there any signs of damage, including puncture holes in the crate, or shattered or stressed wood?

If there is visible damage, insist that the damage be noted on your bill of lading and that either the delivery person or a representative from the delivery company be present when you open the crate. All Pro Cyc crates are custom made for each order. Pro Cyc will not honor claims for damage if the bill of lading has been signed without noting and alerting the carrier of damage to the crate. The only exception is if the damage is internal. In that case, keep the crate so it can be inspected.

Review your Pro Cyc shipment to make sure all items listed on your quote match up to the items shipped. If there is a discrepancy, please call us right away to get the problem resolved.

Let’s Assemble Your Cyc:

1. Tools

You will need the following tools & supplies for assembly of the cyc:

- Circular saw
- Stud finder
- Sockets and drivers; 7/16"
- Sockets and drivers; 1/2"
- Clamps or vise grips
- Chalk line
- Minimum 24" long level
- Carpenter’s square
- 1/8" drill bit
- Drift pin to align 9/32" holes

- Drill motor
- Roto-hammer with 5/32" masonry drill bits (only if attaching cyc to concrete wall or floor)
- Canned air
- Dry mortar mix (One 80-pound bag for every 12 linear feet of cyc floor length)
- Framing hammer
- Screwdriver (Phillips & flat)
- Palm sander w/60-grit sandpaper
- Clean shop towels or cloths
- 4" minimum width horizontal furring strips or plywood – enough to match up to total length of floor cove cyc-to-wall contact area.
- Vertical furring strips or plywood - same width as the distance on center between studs in your wall. The height of these strips need to be 56.25" less than the overall height of your finished cyc. You should have two furring strips or pieces of plywood this size for every corner in your cyc. (L-shaped cycs have one corner; U-shaped cycs have two corners.)
- All furring strips or plywood should be the same thickness as the sheetrock in your wall
- Sheetrock knife
- Drywall tools
- Pro Cyc’s Grey Bonding Primer
- Paint
- Paint supplies
- ABS plastic glue or cement (Available in plumbing supply stores. This adhesive is only required if you need to trim your cyc to fit your studio.)

2. Sanding the Modules

Sand the entire surface of each cyc module with 60-grit sandpaper. This will provide for better paint adhesion.

Sanding before assembly will help make sure outside edges coming in contact with the joint compound are not missed.

Sand the outside edges and the side flanges with 60-grit sand paper. This will provide for better joint compound adhesion and help create a non-slip surface when bolting the modules together.

Be sure to sand the recessed area at the top corners of where Part #5A45L-EZ and #5A45R-EZ join together. If the electric palm sander will not drop into the recess this area should be done by hand.

After sanding, clean each module with a damp cloth. Dust from the sanding process can interfere with paint and joint compound adhesion. This is also a good time to clean the sanding dust from your studio.

3. 5D Tall Steel Leg Support Assembly

Using 5/16"-18 bolts, nuts and washers, bolt together the leg support assembly. (One for each corner assembly to be installed.) Bolt the steel stud to the angle base (foot) so that the stud is standing on the inside bottom of the foot. Use a level or carpenter’s square to make sure the foot is perpendicular to the stud. Next, connect the flat bar diagonal braces. (See Figure 1.)

Next, bolt together the steel studs using the 8" aluminum connector. Be sure to use a straight edge to make sure the steel studs are properly aligned before tightening the bolts.

Connect the 2" x 5" steel flange brackets to the stud columns. Make sure the brackets attach to the outside (smooth side) of the studs in the exact positions shown in Figure 2.

4. 5D2 Steel Leg Support Assembly

Using 5/16"-18 bolts, nuts and washers, bolt together the leg support assemblies. (One left and one right for each corner assembly to be installed.) Bolt the steel stud to the angle base (foot) so that the stud is standing on the inside bottom of the foot. Use a level or carpenter's square to make sure the foot is perpendicular to the stud.

Connect the 2" x 5" steel flange brackets to the stud columns. Make sure the brackets attach to the outside (smooth side) of the studs in the exact positions shown in Figure 3.

5. Corner Module Assembly

When installing a Super 5EZ corner, you will need to assemble the corner modules prior to measuring for the wood furring strips in your walls.

Bolt together Part #5A45L-EZ and #5A45R-EZ using 1/4"-20 x 1" bolts, nuts and washers. Make sure there are two washers used for each hole. **DO NOT INSTALL A BOLT, NUT & WASHERS IN THE TOP HOLE.** Before tightening the bolts completely, make sure the faces of these corner modules are aligned perfectly.

Next attach the 5D Tall Steel Leg Support Assembly to the back center flanges where the corner modules join together.

Lift the pair of modules upright and position them so the top of the modules are resting on top of the 2" x 5" steel flange bracket and the back edges of the flanges are 1/2"

from the front edge of the leg assembly stud. This spacing allows you to adjust other modules in or out to make sure the face of the cyc stays even as you add height to the corner assembly.

The tops of Part #5A45L-EZ and #5A45R-EZ should be 66" off the ground.

Drill through the two holes in the 2" x 5" steel flange bracket and the flanges on the modules using a 9/32" drill bit. Bolt the modules to the 2" x 5" steel flange bracket using 1/4"-20 x 1" bolts, nuts and washers (See Figure 4.)

Next, position the 40" long flat bar diagonal brace just under the seventh bolt up from the floor. Drill through the hole in the 40" long flat bar diagonal brace and the flanges on the modules using a 9/32" drill bit. Bolt the modules to the brace using a 1/4"-20 x 1" bolt, nut and two washers. (See Figure 5.)

Using vice grips or C-clamps attach the left and right 5D2 Steel Leg Assemblies to the outside edges of the corner assembly as shown in Figure 6.

Bolt at least one pair of Part #5B45-EZ modules to each other using a 1/4"-20 x 1" bolt, nut and two washers for each hole. Before tightening the bolts completely, make sure the faces of these modules are aligned perfectly.

Lift the pair of #5B45EZ modules to the top of the #5A45L-EZ / #5A45R-EZ assembly and attach using a 1/4"-20 x 1" bolt, nut and two washers for each hole. Before tightening the bolts completely, make sure the faces of these modules are aligned perfectly.

Drill through the two holes in the 2" x 5" steel flange bracket at the top of the 5D Tall Steel Leg Support Assembly and also

through the flanges on the 5B45-EZ modules using a 9/32" drill bit. Bolt the modules to the 2" x 5" steel flange bracket using 1/4"-20 x 1" bolts, nuts and washers. Before drilling adjust as needed to make sure the #5B45-EZ modules are vertical and not leaning toward the camera side of the cyclorama.

6. Furring Strip Installation

When the corner assembly is complete, slide it into the corner of the room and mark where the outside edges of the #5B45-EZ coves meet the wall with vertical lines. Make sure that both sides are equidistant from the corner and are approximately 5'-11 1/4" from the corner.

Pull the corner assembly away from the walls, so you have room to work. Next, using a stud finder, locate the studs in your existing wall. From the lines marking the vertical edges of your corner section, locate the closest stud inside each line and outside each line. Remove the sheetrock between the two studs on the left wall and the two studs on the right wall. Begin this process by cutting the sheetrock with a knife or circular saw 56-1/4" above the floor and up to the planned height of the top vertical module. **(BE CAREFUL NOT TO CUT COMPLETELY THROUGH THE SHEETROCK WITH A CIRCULAR SAW. IF THE STUDS ARE METAL THE DAMAGE CAN BE STRUCTURAL. COMPLETE THE CUT WITH A SHEETROCK KNIFE.)** Make the cuts through the sheetrock, along the center of each stud. Remove the sheetrock between the studs and replace it with plywood or furring strips that are the same thickness as the sheetrock you removed.

Now you need to remove horizontal strips of sheetrock along the top of the floor coves' length and width of your cyc and replace them with plywood or

furring strips so you have a solid surface to which you attach the tops of your floor-cove modules.

Begin in the corner and measure out at least as long and wide as your cyc. Terminate each strip into the stud that is equal to or longer/wider than your cove unit. Each strip should go underneath the furred out vertical strips you have in place. Measure up from the floor 52-1/4" and mark the wall at either end of your cyc. Next, mark the wall 4" above your first mark. Use a chalk line to mark the area to be removed. Using a sheetrock knife or a circular saw, remove the sheetrock between your two lines and replace it with plywood or furring strips that are the same thickness as the sheetrock wall. (AGAIN, BE CAREFUL NOT TO CUT COMPLETELY THROUGH THE SHEETROCK WITH A CIRCULAR SAW. IF THE STUDS ARE METAL THE DAMAGE CAN BE STRUCTURAL. COMPLETE THE CUT WITH A SHEETROCK KNIFE.)

NOTE: Adding an additional layer of sheetrock (on top of your existing sheetrock with furring strips) will help with soundproofing and it will also render an improved fire rating. If you choose to install a second layer of sheetrock make sure to use wood screws that are long enough to reach the furring strips when you attach the Pro Cyc modules to the wall.

7. Trimming Your Cyc to Fit Your Studio (See Figure L)

Cyc modules should be trimmed to fit after all other modules have been assembled. This will allow you to take an exact measurement of the trim length required.

Snap a chalk line at the desired length and use a circular saw to cut the module to the size.

Next, cut the remaining part 1" from the flanged end so you can re-attach the flange.

Clean off any burrs or debris from the plastic before using ABS adhesive or cement (available in plumbing supply stores) to fasten the flanged end behind (under) the cut-to-length module. Clamp the parts together until the glue is dry.

You will need to trim the floor and/or wall side of the flange back to the point where it will allow you to align the face of the trimmed module with the face of the adjoining module.

8. Assembly

With your plywood or furring strips in place, begin to assemble your Pro Cyc modules. Before assembly, make sure that the flanges on the modules do not prevent the cyc from fitting flush to the floor or wall. If a flange holds a cove end off the floor or wall, simply grind down the flange in that area. Assemble your cyc away from the walls so you have adequate space to work.

Set aside one 5B-EZ module for each side of the corner assembly or assemblies you have built. After setting aside these modules you will attach pairs of 5B-EZ modules to each other...

Stand a 5B-EZ module on its flanged side. Next, place a second 5B-EZ on top of the first one and align the holes with an alignment tool such as a drift pin, or even a bolt. LOOSELY bolt the two parts together using a 1/4"-20 x 1" bolt, nut and two washers in each hole. When all of the holes are loosely fitted, tighten the bolts one by one, making certain that the face of the coves remain flush. Repeat this process with all remaining cove pairs that form each wall of the cyc.

Snap a chalk line the full length of the horizontal plywood or furring

strips at 4'-6 3/4" above the floor. This is where the top edges of the floor coves will be.

Slide the corner group back into the corner area. It should be approximately 4 1/2" from the wall. One person should remain behind the corner.

Remove the left or right 5D2 Steel Leg Support Assembly.

Attach one 5B-EZ module to each side of the corner assembly. To keep it from sagging, you can temporarily brace the outside edge of the 5B-EZ module.

9. Attach the Cyc to the Wall

Push the cyc unit into place in the corner and along the wall. When the entire unit is against the wall, continue to shift the cyc back and forth until all areas seem to be against the wall and floor.

Use a level to make sure the left and right edges of 5B45-EZ modules go straight up the walls without drifting or leaning to the left or right.

Begin by attaching the corner modules to the wall. Starting in the corner, work your way up and out from the corner and attach the cyc to the wall with 1-1/4" Phillips drywall screws. Make sure the modules remain parallel to the furring strips or plywood and that the cyc does not "climb" or "sag" away from the 4'-6 3/4" high chalk line as you move away from the corner. You should only attach at the first five or six screw holes in Part #5B-EZ as you move away from the corner. This will allow enough flexibility in the module to pull it away from the wall as you bolt the next pair of 5B-EZ modules on the end.

Take one pair of 5B-EZ modules, rotate it up and move it into position so that it can be bolted to the 5B-EZ module that is

connected to the corner group. LOOSELY bolt the 5B-EZ parts to the corner assembly using a 1/4"-20 x 1" bolt, nut and two washers in each hole. When all of the holes are loosely fitted, tighten the bolts one by one, making certain that the face of the coves remain flush.

Repeat the above process with all cove pairs that form each wall of the cyc.

10. Permanently Attach the 5D2 Steel Leg Assemblies to the Outer Edges of the Corner Assembly.

Attach the 5D2 Steel Leg Assemblies in the same position they were clamped in before attaching the 5B-EZ modules. Drill through the holes in the 2" x 5" steel brackets and the flanges on the modules using a 9/32" drill bit. Bolt the modules to the bracket using a 1/4"-20 x 1" bolt, nut and two washers at each hole. (See Figure 7.)

11. Fastening the Bottom Edge to the Floor

After the top and sides of the corner modules and the top of your floor coves have been attached, it is time to position and fasten the bottom of your cyc to the floor. Using both hands, grab the cyc from underneath, pull it forward, and then let it fall gently into place.

To secure the cyc to the floor, begin in the corner and work toward each end of the cyc.

Drill through the cove modules into the floor. If you are attaching to concrete, you should use a roto-hammer and 5/32" carbide masonry drill bits to install 3/16" x 1-1/4" flat-head Phillips concrete screws. Drill the holes a minimum of 1-1/2" deep. If you are fastening into a wood floor, you should use 1/8" drill bits to install 1-1/4" Phillips drywall screws.

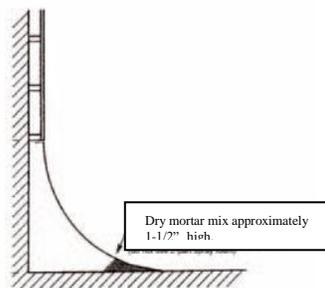
Before installing the screws blow out each hole with canned or compressed air.

12. Fasten the 5D Tall & 5D2 Steel Leg Support Assemblies to the Floor

Drill through the furthest forward and the furthest back holes in the steel foot and into the floor. If you are attaching to concrete, you should use a roto-hammer and 5/32" carbide masonry drill bits to install 3/16" x 1-1/4" flat-head Phillips concrete screws and 1/4" flat washers. Drill the holes a minimum of 1-1/2" deep. (See Figure 8.)

13. Reinforce the Tapered Edge at the Floor

It provides additional support to the cyc to put dry mortar mix underneath the area where the cyc meets the floor. Do this to a height of approximately 1-1/2" as depicted in the drawing below. Use a spray bottle to spray water on the back side of the mortar mix and allow the mortar to set before moving on to the next step.



14. Finish the Joints and the Tapered Edges at the Floor and the Wall

The tapered edge at the floor may be done either simultaneously with the joint mudding or subsequent to the joints. The completed feathered edges at the cyc-to-floor and cyc-to-wall transitions will typically extend 4" to 6" in front of the front edge of the cyc modules. This feathered edge completes the radius of the cove module.

If you can't use a forklift or other form of extension to work on the vertical walls you should mud half way down the floor coves (all three coats) before mudding the bottom half of the floor coves. This will decrease the chance that you will crack the joint compound if you walk up onto the coves. If you do step on the coves you should step on the seams because they offer the best support.

Be sure to fill the recessed area at the top of where the 5A45L-EZ and 5A45R-EZ corner modules meet.

The process for finishing the joints and the tapered edge at the floor is the same:

Make sure that the surfaces of all modules are properly sanded (see Step 2.) and wiped down in order to remove sanding dust. Use a self-adhesive fiberglass mesh tape on the joints. Be sure to press the tape into the crack with your finger as you apply the tape. YOU SHOULD ONLY USE FIBERGLASS MESH TAPE WHERE MODULES MEET OTHER MODULES, WHERE MODULES MEET THE WALL AND WHERE MODULES MEET THE FLOOR.

Use a 90-minute drywall mud such as Durabond 90 Setting Type Joint Compound to mud the joints.

DO NOT USE EASY SAND JOINT COMPOUNDS, AS THEY HAVE POOR TACKING QUALITIES.

ALLOW PLENTY OF TIME FOR THE MUD TO COMPLETELY DRY BEFORE APPLYING SUBSEQUENT COATS. This is because moisture can only escape through the face of the joint.

Wet sand or dry sand the joints and re-coat with the 90-minute mud. Wet or dry sand again. For

the third and final coat, use a regular box or bucket mud, such as Beadex All Purpose Joint compound, to float out the seams. Sand and wipe down the cyc one last time before painting.

Do not cap off the ends or the top of the corner on your cyc. It is important to allow the free flow of air behind the cyc. Temperature differences between the front and the back of the cyc can create uneven expansion and contraction. This can cause drywall mud to crack.

15. Prime & Paint the Cyclorama
Wipe the entire cyc with a clean damp cloth – including the

sheetrock wall. It is now ready to be primed. Apply one generous coat of Pro Cyc's Grey Bonding Primer using a 9" roller with a 3/4" nap. Use a 3" or 4" roller in the corner area.

Paint your cyc with ether a roller or an airless spray gun. See Pro Cyc's Helpful Construction Hints (available for download on our website) for useful tips on painting your cyc with a roller.

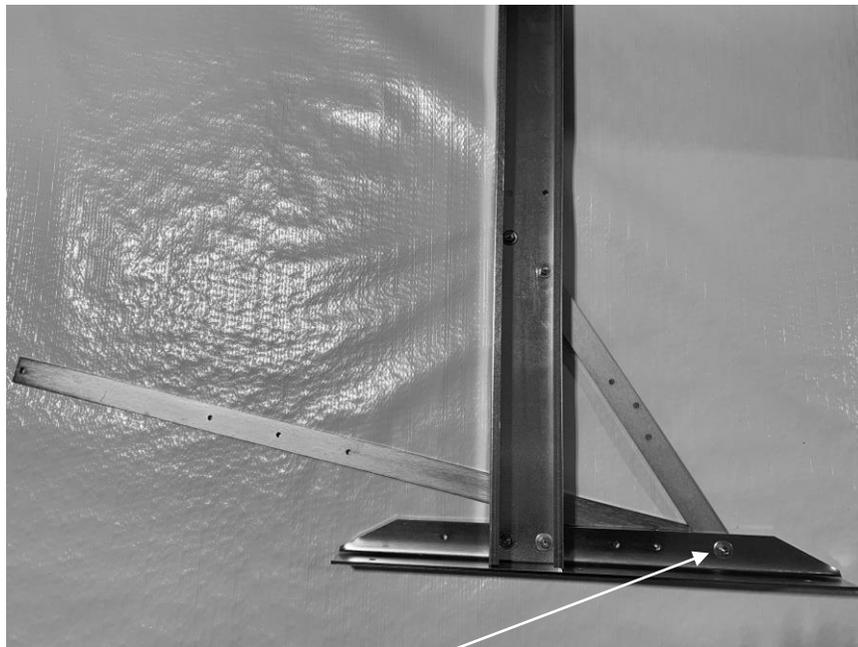
Repaint as often as necessary over the life of the cyc. Clean between each coat. Wearing surgical booties and/or putting plastic on the floor coves during rehearsal or studio prep will

prolong the time between new coats of paint.

16. Questions?

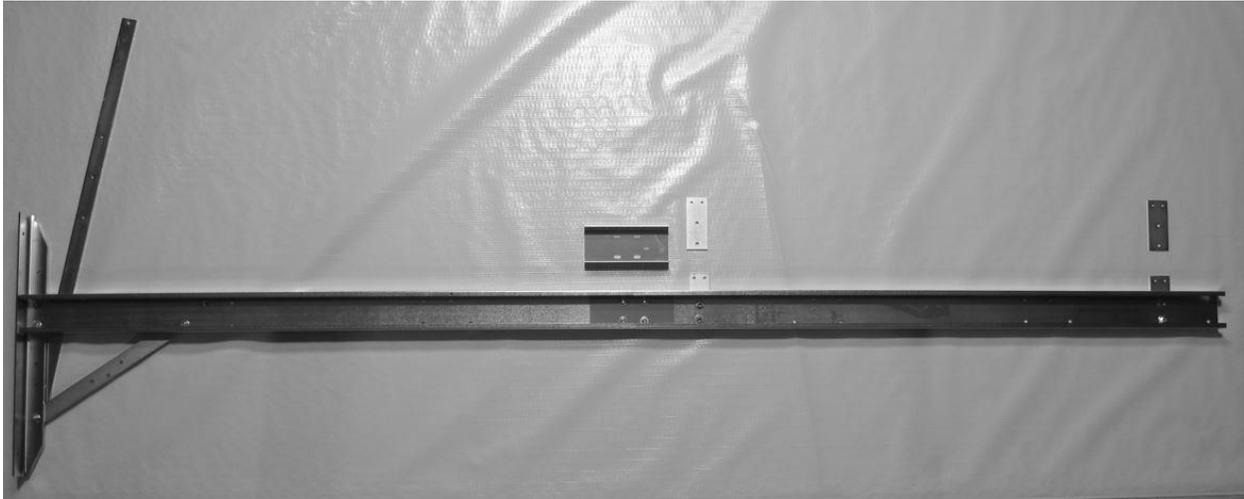
Please give us a call at: (503) 723-7448. You can also email us at: info@procyc.com

Instructions, schematics, helpful construction hints and other recommendations can be found on our website: www.procyc.com



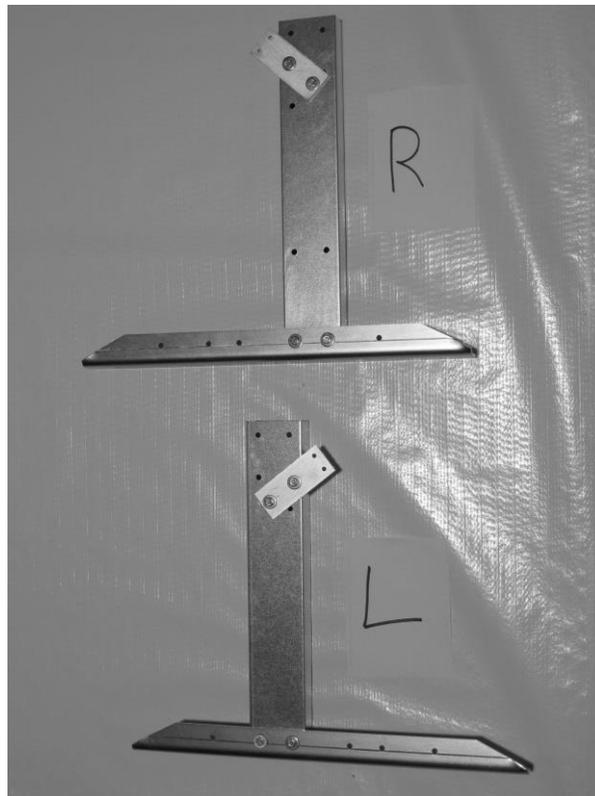
5D Tall Steel Leg Assembly – Use 5/16"-18 x 1-1/4" long bolt here.

Figure 1.



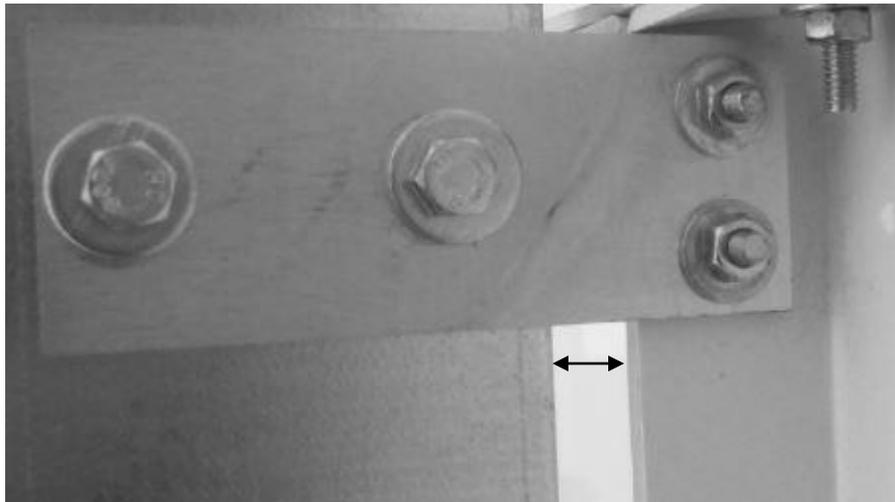
5D Tall Steel Leg Assembly – Use 5/16"-18 x 3/4" long bolt at all other locations.

Figure 2.



5D2 Steel Leg Assembly

Figure 3.



Gap between steel stud and plastic flanges approximately 1/2".

Figure 4.



Attach 40" long flat bar diagonal brace under the seventh bolt up from the floor.

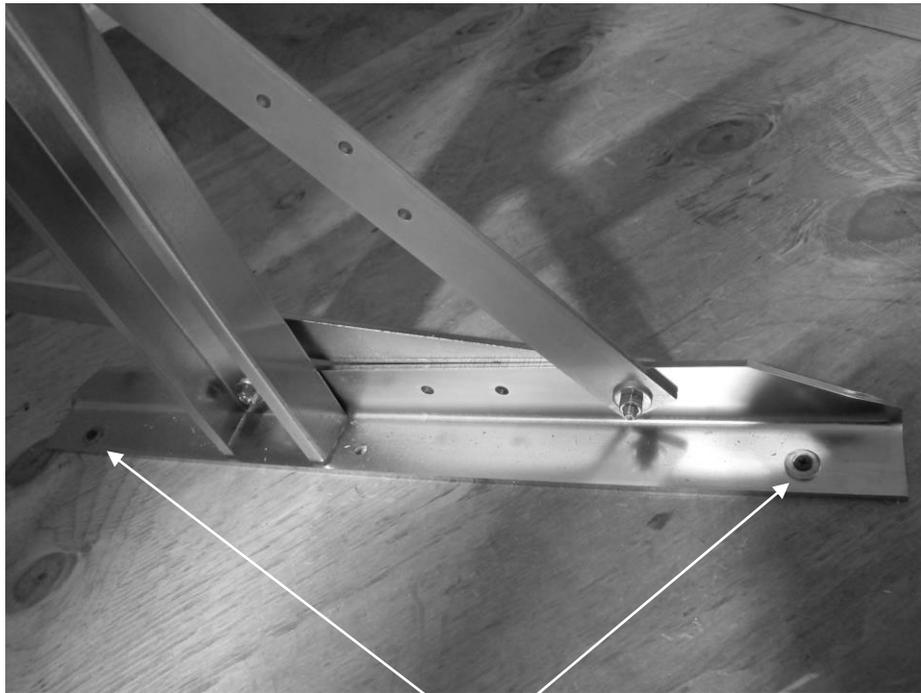
Figure 5.



Temporary attachment for left and right outer support. (Left shown.)
Figure 6.



Figure 7.



Attach steel foot to floor at front and back holes using concrete screws and 1/4" flat washers.
Figure 8.

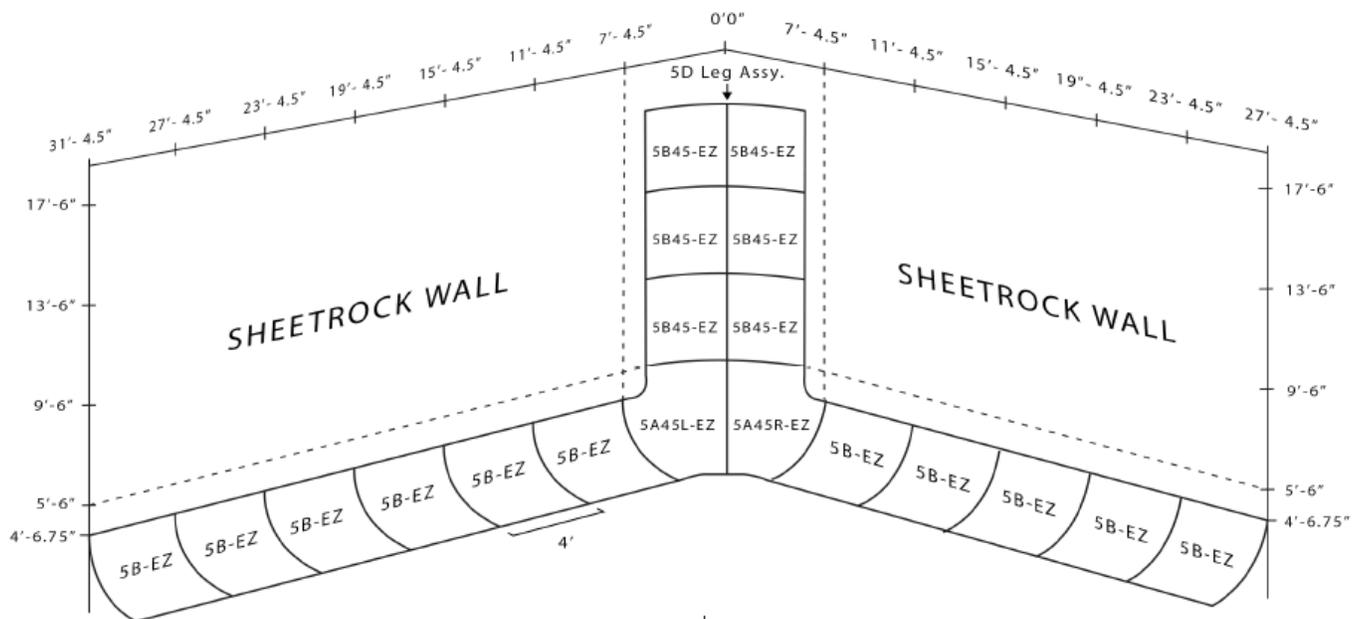


Figure L

