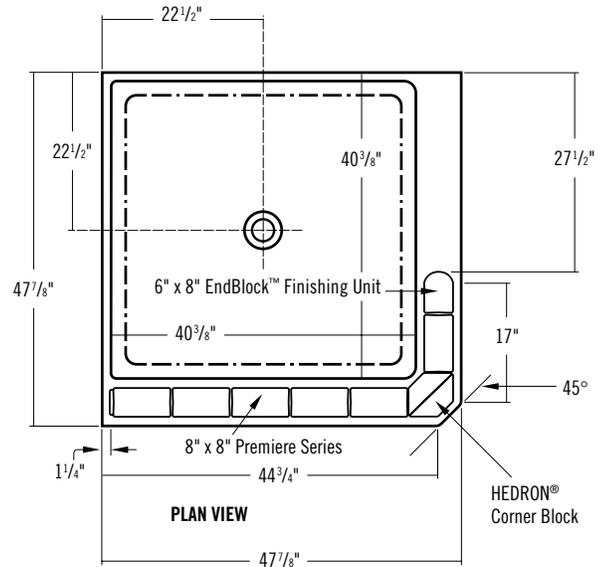


Pittsburgh Corning Glass Block Shower System ProVantage™ Installation Instructions

CLASSIC SHOWER SYSTEM KIT MATERIALS LIST

- 1 – Classic Shower Base, 48 inch x 48 inch
- 60 – 8 inch x 8 inch x 4 inch Glass Blocks
- 10 – 6 inch x 8 inch x 4 inch EndBlock™ Units
- 10 – 8 inch HEDRON® Corner Blocks
- 1 – ProVantage™ Classic Spacer Pack which includes the following:
 - 20 – pcs. HEDRON® Flat Vertical Spacers
 - 10 – pcs. HEDRON® Horizontal Spacers (9 whole spacers and 1 half spacer)
 - 10 – pcs. 12⁷/₈ inch Horizontal Spacers cut to fit EndBlock™ Shape
 - 60 – pcs. 7¹/₂ inch Vertical Spacers
 - 10 – pcs. 39¹/₈ inch Horizontal Spacers
 - 2 – pkgs. Anchor Pack
- 1 – Bucket ProVantage™ Glass Block Surface Grout
- 1 – Chrome Shower Drain
- 1 – Pivot Shower Door
- Shower Door Installation Kit
- 12 – Tubes Pittsburgh Corning Glass Block Sealant
- 1 – Bottle TGR Grout Sealer
- Installation Instructions



CLASSIC SHOWER FLOOR PLAN
(Base can be installed with entry on either side. Right entry shown above.)



TOOLS REQUIRED

- » Screw driver, power drill with an 1/8 inch and a 3/16 inch drill bit, 3/16 inch masonry drill bit, long nose pliers, rubber mallet, four-foot level, caulk gun, utility knife, margin trowel, rubber float, bucket, tile/grout sponge, rubber gloves, cheese cloth and safety glasses.
- » To set and install the shower base you will also need a mortar pan, mortar mixer hoe, brick trowel, wood shims, galvanized nails, 50 lb. bag of plaster or mortar and a sheet of roofing paper or plastic the size of the shower base.

1. SHOWER BASE INSTALLATION INSTRUCTIONS

For Classic Shower Base, Walk-In Shower Base and Neo Angle Shower Base

Special Notes to Installer

- » All pictures provided with these instructions are typical, and may appear different than the actual items being installed.
- » The installer is solely responsible for determining the requirements necessary for compliance with all codes involving installation of this shower.
- » All published unit dimensions are for reference only. Any critical dimensions required for installation should be taken directly from the shower base being installed.
- » Carefully check the shower base upon receipt. Notify your supplier immediately if any questions or problems are encountered during this process. Do not install the base without first addressing questions, which arise during inspection. Check for:
 - » Unit drain matches to the bathroom drain location.
 - » Surface damage.
 - » Color coordination to other bathroom fixtures.

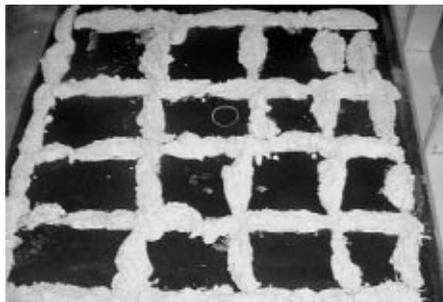
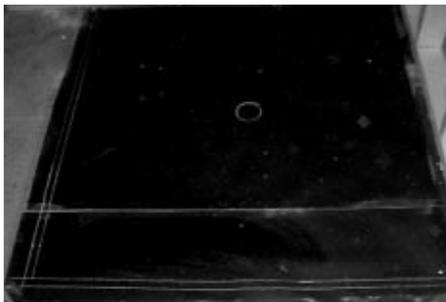
1. SHOWER BASE INSTALLATION INSTRUCTIONS

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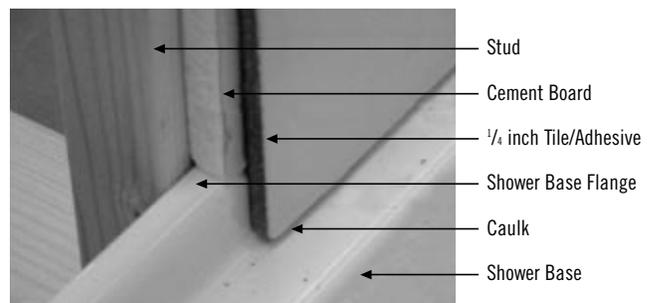


Installation

- » Location of drain pipes and shower base drain must be made before the installation of shower base. The drain plug accommodates a 2 inch PVC waste pipe.
- » Insure the floor and stud walls are square and plumb.
- » After leveling base on sub floor (use shims if necessary), draw a line on the studs at the top edge of the shower base flange. This will be the installed height of the shower base.
- » Make certain the drain assembly lines up with drain hole of shower base.



- » Remove shower base and lay down roofing paper or plastic sheet with drain hole mark on it.
- » Mix bedding material (plaster or mortar).
- » Apply bedding material to paper or plastic 2 1/2 inch thick in a 12 inch x 12 inch grid pattern the full length and width of the shower base.
- » Bedding material must not be under the apron (edge).
- » Cut opening in paper at drain and lower shower base into position with drain assembly.
- » It will be necessary to “rock” the shower base until the top of the shower base flange aligns with the lines drawn on the studs.
- » Make certain the apron is contacting the floor along the entire edge of the base. If shims were used re-install them.
- » Insure the base is level in two directions and against the stud framing.
- » Fit drain assembly into shower base. Note: Allow the bedding material to completely harden before applying weight to the bottom of the shower base.



- » Drill 1/8 inch holes through the shower base flange at all stud locations.
- » Secure the base to the studs with 1 1/2 inch roofing nails.
- » Finish installation as shown above.
- » If installing the shower base against an existing wall attach 3/8 inch thick furring strips to walls around the shower base or notch wall to accommodate shower base.

Cleaning Shower Base

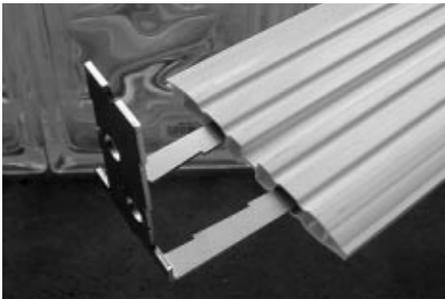
- » Use a mild, non-abrasive cleaner specifically formulated for gelcoat and acrylic surfaces. Rinse surface thoroughly.

2. GLASS BLOCK INSTALLATION

(Our illustrations show a right entry design. You can also build this as a left entry design if desired.)



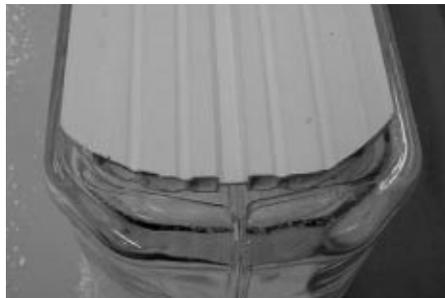
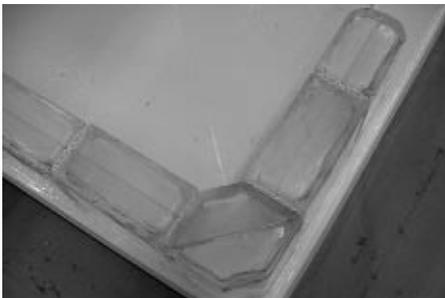
- 2.1 After installation of the shower base, but before beginning to install the glass blocks, line up a few courses of glass blocks for each curb. Layout the horizontal spacers for each curb: you will need one 39 $\frac{1}{8}$ inch spacer, one HEDRON® half spacer with the barb tab removed (bend back and forth until it snaps off) and one 12 $\frac{7}{8}$ inch EndBlock™ spacer. Layout the vertical spacers: you will need two 7 $\frac{1}{2}$ inch vertical flat spacers and six 7 $\frac{1}{2}$ inch vertical spacers.



- 2.2 Insert a wall anchor into the first horizontal spacer. Temporarily install the first course of horizontal spacers on curb. One 39 $\frac{1}{8}$ inch horizontal spacer with anchor inserted, one HEDRON® half spacer with tabs removed and one 12 $\frac{7}{8}$ inch horizontal spacer. **Temporarily** install the first 8 inch x 8 inch glass block on the horizontal spacer with a 7 $\frac{1}{2}$ inch vertical spacer next to the wall.



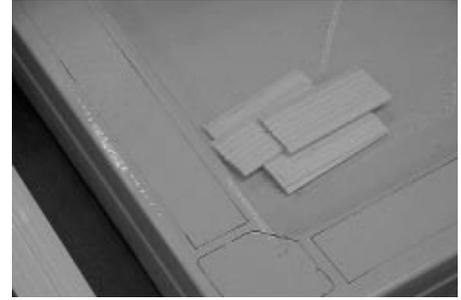
- 2.3 Next, **temporarily** install four 8 inch x 8 inch glass blocks with 7 $\frac{1}{2}$ inch vertical spacers between the blocks. Install the HEDRON® glass block on the half HEDRON® spacer with a flat vertical spacer between the two blocks. The flat side of this spacer is against the HEDRON® glass block. Next install 8 inch x 8 inch glass block on the 12 $\frac{7}{8}$ inch horizontal spacer with a flat vertical spacer between the blocks.



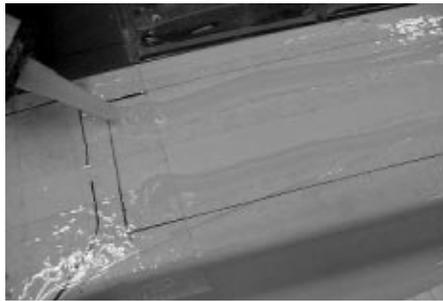
- 2.4 Now, **temporarily** install the 6 inch x 8 inch EndBlock™ on the 12 $\frac{7}{8}$ inch horizontal spacer with a 7 $\frac{1}{2}$ inch vertical spacer between the blocks. Trim the end of the 12 $\frac{7}{8}$ inch spacer if the EndBlock™ Finishing Unit doesn't sit firmly on it or tightly next to the 8 inch x 8 inch glass block. Use a level to check the alignment and to adjust the first course of glass blocks on the curb.

2. GLASS BLOCK INSTALLATION

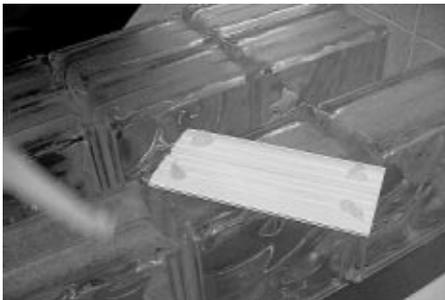
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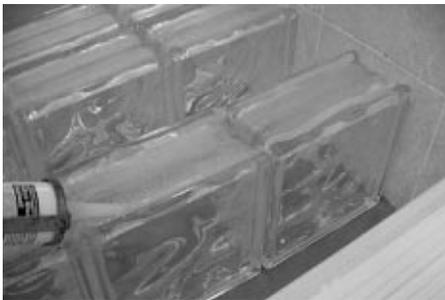
2.4a Carefully remove the glass blocks and vertical spacers from the bottom horizontal spacers. Holding the horizontal spacers in place, trace the location of the spacers on the curb.



2.5 Now, let's build the walls. Apply $\frac{1}{4}$ inch beads of sealant on top of the curb $\frac{1}{4}$ inch inside the lines on both sides where the horizontal spacer was positioned. Then reinstall the horizontal spacer, pressing it down into the sealant. (Do not secure with screws).

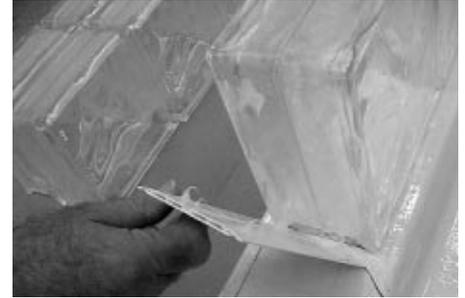


2.6 Apply four $\frac{1}{2}$ inch dabs of sealant to the first vertical spacer $\frac{1}{2}$ inch in from the 4 corners. Press the spacer into place over the anchor. Apply 4 dabs of sealant to the other side of the first vertical spacer.



2.7 Then apply $\frac{1}{4}$ inch beads of sealant across the top of the first course of blocks, behind the raised edge of the glass block face on both sides of the blocks. Next, install first block on top of the horizontal spacer with the beads of sealant down, push the block firmly against the wall and the base.

Apply $\frac{1}{2}$ inch dabs of sealant behind the raised edge of the glass block face $\frac{1}{2}$ inch in from the four corners, then press another vertical spacer into place.



2.8 Apply four 1/2 inch dabs of sealant to the vertical spacer 1/2 inch in from the four-corners. Install the second glass block. Repeat these same procedures for all the 8 inch x 8 inch glass blocks except the last block. Apply a flat vertical spacer to the last block with its grooved side against the glass block.



2.9 Next, remove the HEDRON® half spacer from the curb and apply a 1/4 inch bead of sealant around the inside perimeter of the marking on the curb for the HEDRON® glass block. Reinstall the half spacer, next, apply a 1/4 inch bead of sealant around the top perimeter of the HEDRON® block.



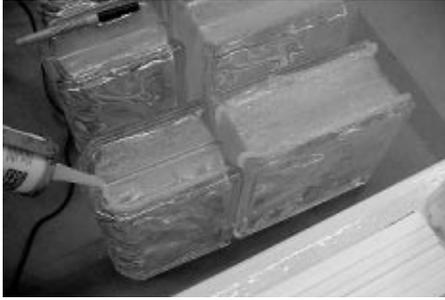
2.10 Next, install the HEDRON® glass block on top of the half spacer, sealant side down, and push the block firmly into place. Apply four 1/2 inch dabs of sealant to the HEDRON® glass block and install another flat spacer with the flat side against the HEDRON® glass block.



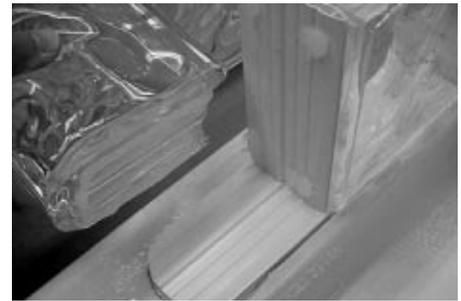
2.11 Apply four 1/2 inch dabs of sealant to the flat spacer. Remove the 12 7/8 inch horizontal spacer from the curb and apply a 1/4 inch bead of sealant around the inside perimeter of the spacer marking on the curb. Reinstall the 12 7/8 inch horizontal spacer on curb inside the marking.

2. GLASS BLOCK INSTALLATION

(Continued)



2.12 Next, apply $\frac{1}{4}$ inch beads of sealant across the top of the 8 inch x 8 inch glass block and round the perimeter of the finishing unit behind the raised edge of the glass block face on both sides of the blocks. Now install the 8 inch x 8 inch glass block on the $12\frac{7}{8}$ inch horizontal spacer, sealant side down. Now apply $\frac{1}{2}$ inch dabs of sealant behind the raised edge of the glass block face $\frac{1}{2}$ inch in from the four corners.



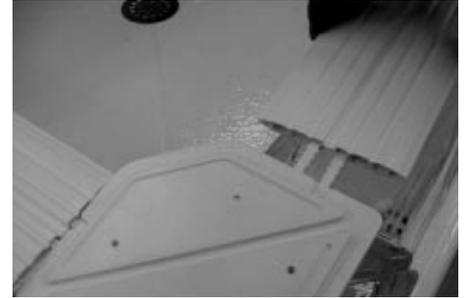
2.13 Next, press vertical spacer into place and apply four $\frac{1}{2}$ inch dabs of sealant to the vertical spacer. Now install the finishing unit on top of the $12\frac{7}{8}$ inch horizontal spacer, sealant side down, and carefully push the block firmly into place.



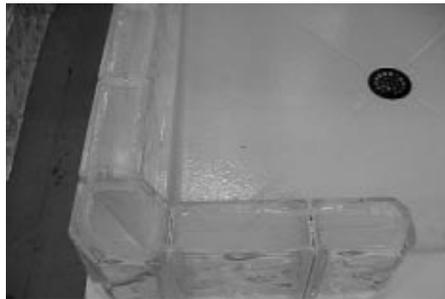
2.14 Use a level to check the alignment and to adjust the first course of glass blocks on the curb.



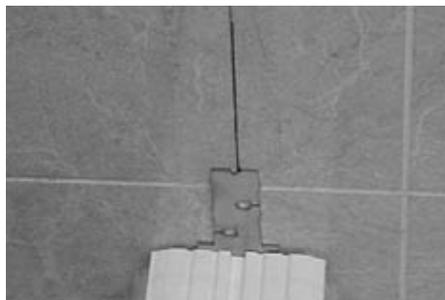
2.15 Now, that the first course is installed you will need to level the glass blocks using the wedges provided with the anchors. Place a level on top of the first glass block, if the glass block is not level carefully slide the tip of a screwdriver (straight tip) under the horizontal spacer until the glass block is level. Next, slide a wedge under the horizontal spacer. Level all the glass blocks. Be sure to slide the wedges between the horizontal spacers and shower base not between the glass block and the horizontal spacer. Make certain that the first course of glass blocks is aligned, straight and level.



2.16 Now you need to assemble the next set of horizontal spacers. Insert a wall anchor in the end of a 39 1/8 inch horizontal spacer, insert the tabs of a HEDRON® horizontal spacer into the other end. Now insert the tabs of the HEDRON® horizontal spacer into the 12 7/8 inch horizontal spacer.



2.17 Place assembled spacers on top of first course of glass blocks and adjust them to fit firmly on the glass blocks. Remove the assembled spacers and apply 1/4 inch beads of sealant across the top of the first course of blocks circling the perimeter of the HEDRON® glass block and the finishing unit. Reinstall the assembled spacers, make certain the spacers are fitting firmly on the glass blocks.



2.18 Now you will need to draw a plumb line vertically up the wall. Place a four foot level even with the V-notch in the wall anchor and draw a straight, level line on the wall. Use this line as a guide when installing the anchors. Next, install two screws in the anchor (screws provided with anchors).



2.19 Repeat these same procedures for the second course of glass blocks, starting with a vertical spacer. Remember to adhere all the vertical spacers and apply sealant to the top of the glass blocks, not on the horizontal spacer. Remember to install flat spacers on the last 8 inch x 8 inch glass block, before the HEDRON® glass block. **IMPORTANT: After completing the second course of glass blocks check the horizontal and vertical joints for sealant. If there is sealant in the joints you need to use a smaller bead or dab of sealant or slightly move the location of the bead of sealant behind the raised edge of the glass block face toward the center of the block.**

2. GLASS BLOCK INSTALLATION

(Continued)



2.20 Check with a level to confirm that the wall is straight, level and plumb as you build. Use a level to check the alignment of the course of glass blocks.

2.21 Repeat this same process for every course making sure to install the appropriate vertical spacers at the beginning and in between the HEDRON® block. Check with a level to confirm that the wall is straight, level and plumb as you build. Use a rubber mallet to help aid final alignment. Once satisfied, let the sealant dry overnight.

2.22 After sealant is dry, use long nose pliers to remove wedges. After removing the wedges fill space with sealant. (Shape, size and color of wedges may vary).

3. FINISHING THE JOINTS

Grout Application

ProVantage™ Glass Block Surface Grout is a high performance white grouting compound designed for interior and exterior applications for use with glass blocks and the ProVantage™ Glass Block Installation System.

IMPORTANT: The ProVantage™ Glass Block Surface Grout was designed and tested for this application – DO NOT SUBSTITUTE!
Caution: Avoid contact with skin. Safety glasses and impervious gloves are recommended to minimize skin and eye contact.

Reminder: Make sure that sealant has been allowed to cure for 24 hours before applying grout. THIS IS A FAST CURE GROUT AND SHOULD BE APPLIED AND COMPLETELY WIPED DOWN WITHIN ONE HOUR. GROUT WILL CURE VERY RAPIDLY AFTER THIS TIME PERIOD.

Tools required: mechanical mixing recommended.

Small power mixer (makes mixing easier, but can also be mixed manually), rubber float, tile/grout sponge, safety glasses rubber gloves utility knife, margin trowel and clean bucket.



Before beginning the application of the grout, inspect the glass block joints and remove any excess sealant from the vertical and horizontal joints with a utility knife.



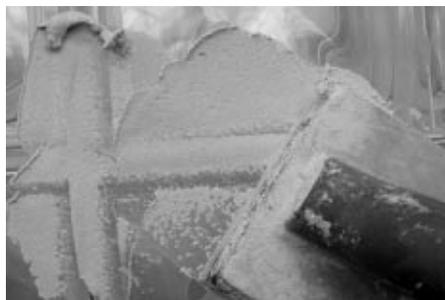
Mixing: Remove the bag of grout from bucket. Pour in approximately 16 ounces of clean water.



Gradually add half the bag of ProVantage Grout powder while slowly mixing. Use a low-speed mixer. Mix thoroughly to a smooth, homogeneous consistency.



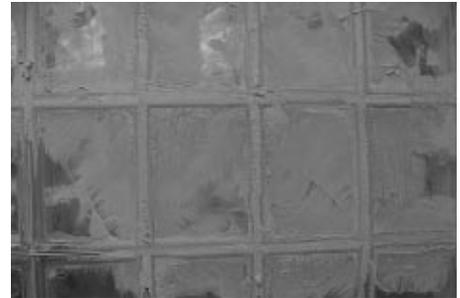
Allow material to stand (“slake”) for approximately 5 to 10 minutes. Re-mix without adding more water or powder.



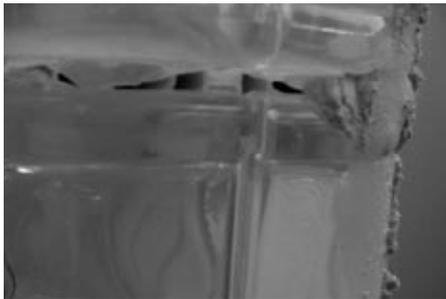
Begin application of grout: Starting at the top of the glass block wall, apply grout to the joints of glass blocks by moving the rubber float diagonally on a 45° angle across the joints. This is the best application method to fill the joints with grout. Pack material into joints with float until full. Be carefully not to move glass blocks while grouting since wall might still be flexible prior to grout cure.

3. FINISHING THE JOINTS

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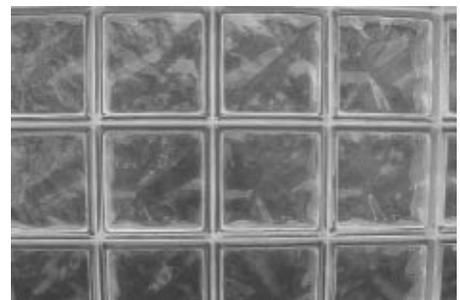
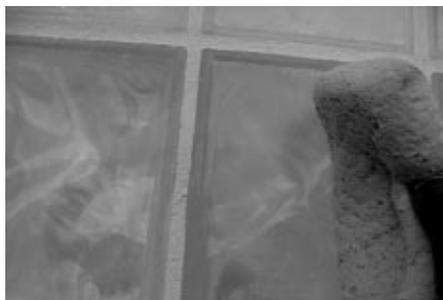
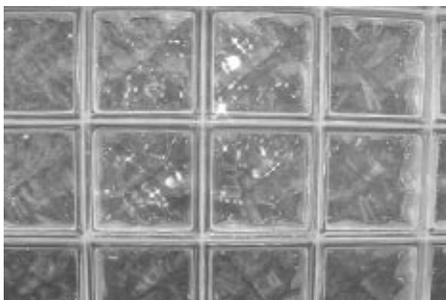
Do not grout the perimeter joints between the blocks and the wall and curb. These joints must be caulked after the grout has dried for a pliable watertight joint. Drag grout float across surface at a 45-degree angle to pick up excess grout.



IMPORTANT: Use the margin trowel to thoroughly pack the grout in the joints of the EndBlock Finish Units. Apply all the mixed grout before begin the cleaning process.



Allow grout to firm up in the joints approximately 5 to 10 minutes, and begin cleaning process. Use a clean tile grout sponge and clean, cool water. Dampen sponge and wring- out as much water as possible. Excessive water during cleanup will weaken grout. Work sponge diagonally to pick up excess grout on surface of blocks. Run sponge lightly through joints to ensure joints are even.



Wipe down should recur in multiple directions until all grout is removed from blocks and joints are smooth. Rinse and wring out sponge frequently. Let glass block wall set for 15 minutes and wipe down again with a clean bucket of water. The grout will harden within 3 hours. At this point you can begin polishing glass blocks by wiping down with a soft rag or towel. Wait four hours then apply grout sealer to all grout joints. Immediately wipe off any excess sealer with a clean, dry cloth to prevent it from adhering to the glass blocks. For maximum protection it is recommended that you apply a second coat of sealer after the first coat has dried. After 72 hours cure of the grout caulk all perimeter joints.

4. SHOWER DOOR INSTALLATION

- A. Make certain the additional screws and plastic anchors listed in the Shower Base Bill of Materials for installation of the door are on hand.
- B. Locate the Pivot Shower Door Owner's Manual assembly and installation instructions in the shower door kit.
- C. Follow the Owner's Manual instructions until Step 6.

Measure up from the threshold to the center of the first grout joint. Mark this location on the center of the pivot jamb. Repeat for the third, sixth and eighth grout joints. Drill a $\frac{3}{16}$ inch diameter hole through the pivot jamb at each mark, making certain they line up with the grout joints. Continue with the instructions stated in Step 6 of the Owner's Manual. In Step 7, make certain the holes are drilled into the grout joint, using a masonry bit. Use #8 x $1\frac{1}{2}$ inch pan head screws to mount the pivot jamb. Continue with the instructions until Step 12.

- D. Drill holes in the adjustment rail to line up with the grout joints (as done previously in Step 6 for the pivot jamb). Continue with the instructions in Step 12.
- E. In Step 13 (if needed), use the adjustment screws to adjust the size of the door opening.
- F. In Step 14 use #8 x $1\frac{1}{4}$ inch flat head screws to mount the magnetic jamb to the adjustment rail.

IMPORTANT NOTE: After completing the installation, mask off the area around the pivot jamb and magnetic jamb $\frac{1}{4}$ inch away. Apply heavy bead of glass block sealant to both jambs. Strike the joints and remove the masking tape.

5. ACRYLIC SHOWER BASE CARE & CLEANING INSTRUCTIONS

The Lucite® cast acrylic surface of all Pittsburgh Corning Shower Bases is among the glossiest, highest quality surfaces available. Its hard, non-porous surface prevents dirt from accumulating and resists stains better than other materials. With normal use, Lucite cast acrylic will retain its beauty with only a minimal amount of care. To maintain the high gloss, elegant look of the Lucite cast acrylic surface, follow these simple steps:

1. Use common household, non-abrasive cleaners for most cleaning jobs, (for example: Lysol Basin, Tub & Tile Cleaner®; Glass Plus®; Simple Green®; Mr. Clean; and Top Job, or a mild dishwashing detergent such as Ivory® Liquid). Follow manufacturers' directions and precautions. Rinse well and dry with a clean cloth.
2. Never use abrasive cleaners.
3. Do not allow your Lucite® cast acrylic surface to come into contact with products such as acetone (nail polish remover), nail polish, dry cleaning solution, lacquer thinners, gasoline, pine oil, winter green, etc.
4. Remove dust and dry dirt with a soft, damp cloth.
5. Clean grease, oil, paint or ink stains with isopropyl (rubbing) alcohol. Dry with a clean, soft cloth.
6. Avoid using razor blades or other sharp objects that might scratch the surface. Small scratches can be removed by applying a thin coat of automotive paste wax and buffing lightly with a clean cloth. For deeper scratches, sand the surface lightly with a 400 grit "wet or dry" paper and buff with a fine-grit buffing compound.

6. IF YOU NEED ASSISTANCE

We hope these instructions are clear and answer your questions about the installation of the Pittsburgh Corning Glass Block Shower Systems. For additional information on Pittsburgh Corning Glass Block visit our website at www.pittsburghcorning.com. For specific questions regarding the installation of the Pittsburgh Corning Glass Block Shower System call Technical Support at 1-800-871-9918.

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800 Presque Isle Drive
Pittsburgh, PA 15239-2799
TEL: 800-624-2120
FAX: 724-325-9704

www.pittsburghcorning.com

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