

Pro Advanced Custom Tiled Shower Kit



(800) 369-5458

Installation Instructions

For 48x48, 32x60, 48x72, 72x72

www.prosourcecenter.com

Please read all instructions thoroughly before beginning. If you have questions, please call.

Tools & Materials Required or Recommended

- Jigsaw (for subfloor drain hole) & Drill (for pilot hole)
- Premium Modified (Latex/Polymer) Thin-set Mortar (no premixed)
- 5-Gallon Bucket
- Mixer, caulking gun
- 1/4" x 3/8", 3/16" x 3/16" up to 1/4" x 1/4" square or V-notch trowel
- Margin Trowel (optional) - may use flat edge of standard trowel
- Utility Knife
- PVC or ABS Cement, and section of coupler pipe for connection
- Level
- Lacquer thinner - consider your ventilation. You will need no more than 1/3 of the included applicator bottle.

- Primary Pan sections
- Extension sets for some kit sizes
- 108 - 216 SF waterproofing membrane
- 33 - 66 LF waterproof joint band
- 4 pre-shaped inside corners
- 1 drain flange with ABS/PVC neck
- 1 tube waterproofing sealant/adhesive
- Drain Grate riser with construction plug
- Hair Trap & Choice of Drain Grate cover
- Plastic beads for cavity stabilization
- *Curb pieces if optionally ordered*
- *2 outside corners with curb purchase*

1. Ensure that your subfloor is flat and level. If not, use leveling compound before beginning installation. Locate drain position and arrange pan pieces to center over drain area. If the area is smaller than the pan or pan plus extension(s), trim foam with a fine-toothed hand or power saw - preferably equally from each side - until the pan pieces fit the custom space properly. If the overall pan size is smaller than the desired floor plan, dry-pack mortar may be used to extend the size of the shower pan where needed.
2. Mark general drain location on the subfloor (if it does not already exist) by using the center hole of the dry-fitted pan pieces as a guide. Trace another circle 1/2" inside the existing circle. It is preferable but not absolutely necessary to leave this ~1/2" ridge for better drain flange support. You may also use a center point and create a circle with about a 4" diam.



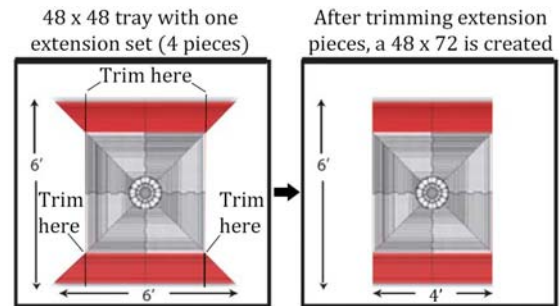
3. Drill Pilot Hole on the inner circle you have hand drawn. Use the jigsaw to cut hole in subfloor using the inner-most circle as a guide (~4" diam.). There should be enough clearance for the tail-piece of the drain flange, but the base of the flange is preferably supported by the subfloor. Be sure to (test) dry fit drain flange and pan pieces.



4. The pictures show various floor panel configurations depending on the kit. A 48x48 pan will include 4 interlocking pieces. A 32x60 pan will have two. A 72x72 kit consists of a 48x48 pan with 2 extension sets (a total of 8 additional panel pieces.) The 48x72 kit uses just one extension set with the four extension pieces laid out as per the diagram then trimmed.



5. Your drain pan is usually pre-cut for this custom drain flange. However if it is not, trim the inside of the pan drain opening to allow for a snug fit of the flange. It should fit as seen in the picture (this example shown in a 32x60 pan) and the drain outlet on the bottom side of the pan should look like the second picture.



6. Test Fit drain flange in pan and measure distance to 2" waste pipe fitting under subfloor. Cut and test the proper length coupler pipe that will attach flange to waste pipe but still properly seat flange into pan/floor assembly. Ensure that this is correct - your next step will be to glue the flange to the waste pipe plumbing.



7. Trowel thinset onto the entire subfloor in the pan area using a 1/4" x 3/8" up to a 3/8" x 3/8" trowel. Press the first pan section firmly into the thinset, then peel back to check coverage. If 100% coverage is not achieved, back-butter the bottom of the pan piece with additional thinset and repeat until 100% coverage is achieved. Repeat until all sections are installed into the desired pan area. Walk over the pan sections to help ensure that each piece is fully embedded into the thinset mortar.



8. Trowel premium modified thinset mortar into the drain flange recess of the pan as shown. This pan was designed to fit several different types of larger drain flanges. For the Advanced Custom kit, there will be an exposed recess area outside of the drain flange that will need to be completely filled with thinset before applying membrane. Simply screed the thinset flush from the drain flange to the continuation of the pan slope.



9. Depending on your plumbing, begin to apply appropriate PVC or ABS glue to your waste pipe, your pre-cut coupler pipe (from step 5) and the inside of the drain flange output neck. (If you somehow have the wrong type flange for your plumbing - ABS black, PVC white/gray - you may use a universal glue. (Check you area for code requirements.) To prevent glue from setting up too fast, you may want to bond one piece at a time - i.e. coupler pipe to waste pipe, then flange to coupler pipe. Seat the drain flange down onto the coupler pipe until firmly embedded into the troweled thin-set. Photos show seating into a mortar bed installation rather than a pan - the concept is the same. Some flanges may have a rubbery blue protective coating - please remove now.



These instructions show the installation from the floor up. We highly recommended to allow the floor installation to cure 24 hours before proceeding with the wall and other installation steps. If you need to complete this installation more quickly - to avoid risk of disturbing the floor installation, we recommend reversing the installation order (walls first starting at the bottom and going up) then finish with the floor install. Please be sure to set aside the correct quantity of membrane for your floor section if using this method.

10. Your waterproofing membrane is 1 meter or 39.5" wide. On 32" wide shower kits, you can pre-cut a single sheet of membrane and pre-cut for the drain hole if desired. On all other shower kit configurations or on larger mortar bed layouts, you will need to plan for at least two sheets with a minimum of a 2" overlap. Ensure that the two pieces DO NOT overlap at the drain location to help ensure installation integrity. For **Non** 32x60 kits, skip to step 11.

With a single piece membrane for a 32 x 60 kit, trowel premium modified thin-set over the entire pan area with a 1/4" x 3/16" v-notch up to a 1/4" x 1/4" square trowel. Do not trowel thin-set onto the drain flange like a fleece-type flange! For installation of the 32x60 single-piece membrane, start by applying 2 to 3 generous beads of Noble-Sealant 150 waterproofing sealant in the circular rings of the flange around the drain opening. The waterproofing sealant retains superior bond and flexibility compared to thin-set and will bond tenaciously to both the membrane and the plastic flange. Lay the pre-cut pan piece over the pan area paying careful attention to the alignment of the drain hole over the beads of sealant. Use the flat side of your trowel or a margin trowel to press the membrane into the thin-set and to press the membrane into the sealant at the drain flange - excess sealant should press out at the drain opening. During installation, run hands over membrane to ensure that no air bubbles are trapped. Test installation by peeling back membrane to ensure 100% coverage. Keep working in membrane or adding additional thin-set if necessary to ensure 100% thin-set coverage. 32x60 installs may skip to step 13.

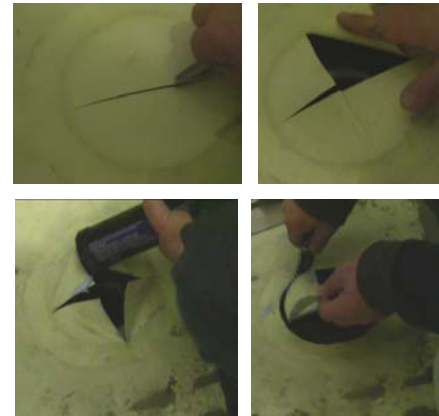
11. Trowel premium modified thin-set mortar onto one side of the pan area with a 3/16" x 3/16" or 1/4" x 3/16" V-notch trowel up to a 1/4" x 1/4" square trowel. You may use the "traditional" 1/8" x 1/8" square trowel but will be adding extra work to ensure 100% thin-set coverage of membrane. Take special care not to thin-set the drain flange - wipe off any overage. Lay one of your sections into the mortar and press vigorously into the thinset with the flat section of your trowel. Peel back membrane to ensure you have achieve 100% coverage. Keep working and/or add thin-set to achieve 100% coverage. During process, run hands over membrane to ensure no air bubbles form. Work out any excess thin-set with the flat edge of your trowel if necessary.



12. Trowel at least 2" wide path of thin-set to prepare for the membrane overlap. Repeat previous process of laying overlapping membrane into thin-set and pressing in with flat end of trowel. Many times throughout the entire kit installation, peel back the membrane to ensure you are achieving 100% thin-set coverage of the membrane. Finalize the overlap installation in this section of the pan floor by pressing and smoothing the overlapping membrane section at the seam.



13. Repeat the installation process on the other side of the pan until the entire two sections of membrane are completely overlapped properly and seated into the thinset. The membrane should be stretched taught over the drain flange, so that the outline of the cavity can be seen. With a razor knife, slit the center section within the inside of the cavity in an 'X' pattern. Using the Noble--Sealant 150 waterproofing sealant loaded in a caulking gun, run a least two complete and generous beads of sealant on the ringed section of the flange that surrounds the opening. It can be a bit challenging to see what you are doing during this step, so take your time. Trim away the excess membrane within the center cavity opening.



14. Using a margin trowel or the flat section of your trowel, press the membrane into the sealant area to ensure a complete bond. Sealant should squeeze out into the center cavity area. Scrape off excess. A paper towel comes in handy during this step.



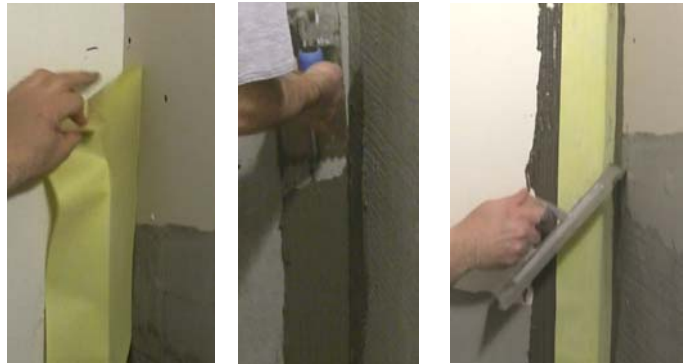
15. Trowel thin-set into an inside corner to prepare for the pre-shaped inside corner piece. Fit the corner piece into position by hand. Using a margin trowel or the flat section of your trowel, press the corner into the thin-set area to ensure a complete bond. Be sure to peel a section back to check for 100% coverage. Smooth the corner out and check for air bubbles. A properly installed corner blends into the installation as shown in the picture. Repeat for all 4 inside corners.



16. Measure your joint seam band section and cut your 5" or 6" wide band to measurement. The following photos show a very short section for more practical viewing. Fold strip in half lengthwise and press to crease. Test fit pre-creased section to ensure proper fit. Trowel thin-set onto the section to prepare for the pre-creased joint band section. Fit the joint band piece into position by hand. Using a margin trowel or the flat section of your trowel, press the section into the thin-set area to ensure a complete bond. Be sure to peel a section back to check for 100% coverage. Smooth out and check for air bubbles.



17. After completing all lower horizontal joint strips, proceed to installing vertical joint strips using the exact same techniques. If you are not taking your tiling all the way up to the ceiling, be sure to mark where your tiling will end and measure the correct length for each piece. Repeat for any vertical corner surfaces. Note: If you run short on band, you can create your own out of any excess membrane.



18. You may wish to wait for the floor to cure a bit before proceeding (please review information at steps 9-10 regarding alternative install order to avoid risk of disturbing floor). In any case, take care when moving over your freshly-installed floor sections. With all joints and corners complete, begin to install the wall pieces starting from the bottom up. Ensure at least a 2" overlap on any adjoining sections. Installation continues exactly like it did for floor sections. As always, peel back membrane to ensure 100% coverage and constantly run hands over membrane to feel for any trapped air bubbles.



19. If you have constructed your own curb, ensure that it is sheeted with a rigid material like concrete board or sheetrock. If you purchased the optional curb, test fit your curb sections and trim as necessary to fit the desired space. Trowel thin-set into the curb seating area and back-butter the ends, sides and bottom of each curb section. If your curb includes a groove or cavity, be sure to fill it with thin-set. If you have pre-coated curbs from Noble, they already include plenty of grip and do not require a groove or cavity. Install the curb sections into position. If you purchased a curb, you should have pre-shaped outside corners.



Use your corner-installation techniques to install these at each end of the curb. Finally, measure and cut a proper sized piece of membrane to cover the curb. Ensure that there is a minimum of a 2" overlap onto the pan floor. Install like other membrane sections.

20. Allow installation to dry / cure. Although modified thin-set provides a superior installation, it does take longer to cure than unmodified thin-set. A box fan in the room circulating air will help speed cure time. You probably will need at least 24 hours for a reasonable cure. You may test an exposed bit of thin-set with the point of your razor knife to test cure progress.

When ready, thread in your drain riser with construction plug. Use spacers to dry fit your floor tile within a grout-space width of the riser-construction plug. During this process, thread your riser so the drain plug is flush with your tile install. Our example photo shows an installation involving complex cuts.



21. After setting grate riser position, remove dry-fitted tile from around drain area. Locate the bag of plastic beads included with your kit. Pour these into the four sides of the cavity surrounding the riser. Clean up any scattered beads, smooth out fill and ensure the bead fill is level with the surrounding floor. Because lacquer thinner evaporates quickly, ensure the area is well ventilated. FILL THE INCLUDED APPLICATOR BOTTLE TO NO MORE THAN 1/3 with lacquer thinner. Using the included applicator bottle, squirt lacquer thinner into the beads which will then instantly "melt" the beads together into a cohesive substrate. The beads will set fairly quickly and excess lacquer thinner will evaporate. Use margin trowel or flat edge to press firmly on frozen beads to ensure stability. Gently attempt to twist riser to ensure that it has been fully stabilized. Allow installation to fully cure.



22. Sample photo of a completed waterproofing installation - ready to tile.
23. After setting of the bead substrate, it is a good idea to flush the drain out of any possible buildup of excess lacquer thinner within the drain (trap). To remove construction plug (black cover) at any time, drive a dry-wall screw a few turns into the center indent of the cover, grab the screw (with pliers if necessary), and pull. Flush drain with water sufficient to flush possible buildup.
24. After installation has completely cured, most codes require proper flood testing. Please check for your local requirements.



Additional Considerations

- Choosing the highest quality premium modified (latex/polymer) thin-set you can find will make your installation much easier and yield better results. After decades of using every brand available, we highly recommend TEC brand adhesives which are available on our web site(s). However, we certainly understand the high cost of shipping heavy materials. If purchasing locally - as of 1/1/2013, your local retail price for a high-quality 50# bag of thin-set generally ranges from \$25 to \$35. Please question the quality of anything costing less unless you have special purchasing power.
- Despite claims to the contrary regarding waterproof membranes, modified thin-set is recommended by the Tile Council of America (TCA) for most modern tile installations and provides contemporary standards of performance. However, you may at your discretion use an unmodified thin-set if you have good reason to do so and/or are very experienced with maximizing results with such material; it does cure faster. Maximizing air flow in the work area will really help accelerate cure times of your thin-set.
- If you are installing very large, heavy tiles on your walls (12 x 18s, 12 x 24s), we highly recommend purchasing our TEC Ultimate Performance large-format Latex Modified Mortar - the 40 lb bag yields the same coverage as a 50 lb bag of standard -style mortar. This mortar is rated for thin-set or medium-set beds. No other mortar compares to the non-slump holding power of this product.
- Rather than sealing and resealing and scrubbing grout, we recommend the use of TEC's Power Grout. This grout has been engineered to perform like very expensive epoxies and urethane grouts but offer lower pricing and much easier installation. Power Grout is VERY stain resistant, permanently sealed, won't effloresce or discolor, is easy to install like standard grout, and cures very quickly - 4 hours for dry traffic, 24 hours for wet.
- If your installation requires a grout color not available in the Power Grout family, use TEC Grout Boost Advanced Pro. Although it will not offer fast cure times, this product will dramatically improve the stain resistance and permanently seal your standard grout (guaranteed for TEC Accucolor standard grouts. This product is available in a 70 oz. liquid designed to treat exactly 25 lbs of dry grout (use instead of water - but may add extra water to achieve desired consistency.)