



## ProTile™ HD1 Shower Tray Installation Guide

ProTile™ HD1 Pre-Sloped Shower Trays are easy to install, dependable, and produce showers that are 100% waterproof, mold proof and ready to tile. ProTile™ shower trays can be customized on site to create unique designs and sizes to fit any space. When used with ProTile™ Building Panels, our shower trays offer a superior alternative to traditional installation materials and reduce the typical installation time from 2-3 days to about 30 minutes. ProTile™ products are compatible with all thinset mortars and tile.

ProTile™ shower bases can easily be cut to size or extended using pre-sloped extension panels designed to fit any size shower. Whether you are creating a wet room or a bathtub replacement shower, ProTile™ Systems has a waterproof solution to meet your needs.

### Recommended Installation Tools

- Mixing and water buckets •  $\frac{1}{4}$ "x  $\frac{1}{4}$ " and  $\frac{1}{2}$ "x  $\frac{1}{2}$ " notched trowels • Thinset mixer • Utility knife
- Straight Edge / T-Square (recommend 5' or larger) • Speed square • Caulk gun • Handsaw
- Flathead screwdriver • Screw gun • Straight and corner putty knives • Paper towels • Level
- Circular saw with carbide tipped blade • Sawhorses • Tape measure • Permanent marker
- Extension cord for power tools • Disposable plastic gloves

### Installing ProTile™ Shower Trays on Wood Subfloors

#### Before Installation

- Install 2"x 4" blocking between the studs (horizontally on floor) around the perimeter of the tray to support the bottom of the ProTile™ wall assembly.
- Subfloor must be sound, level and meets industry deflection standards.
- 2" PVC or ABS pipe should be cut flush or  $\frac{1}{8}$ " (maximum) above subfloor surface.
- Make sure that the 2" drain assembly below floor is stabilized so as not to sink under water or occupant load.
- Only ProTile™ approved products (Building Panel, Curb, Joint Sealant and Fasteners) are to be used in a ProTile™ Shower System assembly.
- Installer has received instruction from a ProTile™ representative, distributor or is familiar with the proper installation methods as described in ProTile's installation instructions.



## Installing Your ProTile™ Shower Tray

1. Cut the 2" pipe flush or 1/8" (maximum) above subfloor surface. Make sure that the drain pipe is centered in the ProTile™ Shower Tray drain opening.
2. Cut a 5" diameter hole around the 2" drain pipe to provide space for the ProTile™ Drain attachment assembly that extends below the surface of the subfloor.
3. Looking at the drain flange from the sloped side of the shower tray, apply a continuous ¼" bead of ProTile™ Sealant on the lower level of the ProTile™ Shower Tray's drain flange.
4. Install the drain body through the shower tray and firmly press the drain body flange into the sealant.
5. On the bottom of the shower tray, apply the rubber then the fiber gasket over the threaded drain body.
6. Tighten the gaskets firmly to the pan's stainless steel support ring using the large compression nut. Make sure the drain body flange remains seated in the bead of sealant.
7. Skim coat the subfloor with ANSI 118.4 rated thinset and rake through with a 1/4" x 1/4" notched trowel. The notch channels should run in one direction, out towards the shower entrance to prevent air entrapment and voids.
8. Skim coat thinset on the bottom side of the shower tray using a ¼" x ¼" notched trowel. Again make sure that the trowel channels run in the direction of the shower entrance.
9. Install the shower tray firmly into the thinset bed, ensuring that the installation is level and free of voids. Apply enough weight to ensure good contact with the thinset and keep pressure even for at least 30 minutes (boxes of tile or water buckets work great for this).
10. Set up the rubber sealing gasket (with the beveled side up) around the 2" pipe in the subfloor. The rubber gasket must be flush with the exposed end of the 2" drain pipe. Note: Do not use any lubricants to help fit the rubber gasket to the pipe.
11. Tighten (compress) the rubber sealing gasket firmly with the sealing nut (use a flat-headed screwdriver)
12. Apply a continuous ½" bead of ProTile™ Sealant along the shower tray channel on the outer perimeter, starting at the wall opposite the shower entrance.
13. You are now ready to install the ProTile™ Panels around the shower tray, secured and sealed in the shower tray channel bead of sealant.
14. Apply one ProTile™ Fastener and tabbed washer every 12"; including a fastener in the panel joint, to form a flush installation with the adjoining panel. On ceilings, space ProTile™ Fasteners every 6". The washer heads should be depressed slightly below the surface of the panel.



15. A continuous ½" bead of ProTile™ Joint Sealant must be applied to the exposed foam edge before tightly butting another foam panel.
16. Excess ProTile™ Joint Sealant should be spread flat using a putty knife. Once these joints are smoothed out, place an additional ½" bead over all joints and fastener heads and strike smooth. Wall joints should be covered a minimum of ¾" on either side of the seam. All fasteners must be completely covered ¾" beyond the fastener head with sealant before tiling.
17. An additional bead of sealant is set along the inside bottom joints where the wall panels meet the shower tray and spread flat over the joint to create minimum of 2.5" of continuous coverage on either side of the joint. Embed a strip of 4.75" ProTile™ Waterproofing Tape in the sealant along the full perimeter of the shower tray. Install half the width of the tape on the wall and the other half on the shower tray, then strike smooth. Inside corners are created in the traditional method by cutting a "V" notch on the shower tray portion of the tape or by making a slit in the tape to create a flap that can be folded across the corner and Embedded in sealant. Cover all waterproof sealing tape edges of inside or outside corners in sealant. The ProTile™ Waterproofing Tape is designed to provide additional peace of mind and security.
18. Lastly, install the stainless steel frame and decorative drain cover using the tiered support spacers as needed to achieve the desired height. The frame and decorative cover will be held in place by a flexible grout joint.

### **Installing ProTile™ Shower Trays on Concrete Subfloors**

Follow installation instructions for installing ProTile Shower Trays on wooden floors above, but rather than cut, you will need to chisel or grind a 5" diameter hole around the 2" drain pipe 2" deep to provide space for the ProTile™ Drain attachment assembly that extends below the surface of the subfloor.

ProTile™ Shower Trays are quick and easy to install, 100% waterproof and designed to provide years of trouble free service.