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Installation Instructions
PSC CH - Linear Floor Drains

Tools and Materials Recommended

- ◊ Premium Modified Thinset Mortar
- ◊ Dry Pack mortar (needed for bedding the drain
- ◊ 5-Gallon Bucket
- ◊ Mixer
- ◊ 1/4" x 3/8", 3/16" x 3/16", up to 1/4" x 1/4" square or V-notch trowel
- ◊ Utility Knife
- ◊ Short Level
- ◊ 1 1/2" Female Trap Adapter or other means to join the drain waste pipe to drainage piping

Your Kit Includes

- Waterproofing adhesive strip
- Drain body for 25 5/8", 29 1/2" 33 1/2" grates (350mm, 450mm, 650mm,750mm, or 850mm)
- Shower Drain Grate
- Easy to remove and clean anti-siphon device cover

Special points of interest:

- These drains use a 1.5" outlet and meet requirements for up to 5.7Gpm per drain
- Adjusts in height from 6 1/2" to 7 3/8"
- Flowrate of 9.2Gpm—10Gpm according to EN 1253-2 testing
- Built in Easy-to-clean Anti siphon and P-trap device
- Supports loads up to 660lbs
- Ships in Center or wall models from 13 3/4" to 33 1/2"

Be sure to read completely and understand the instructions bellow before installing.

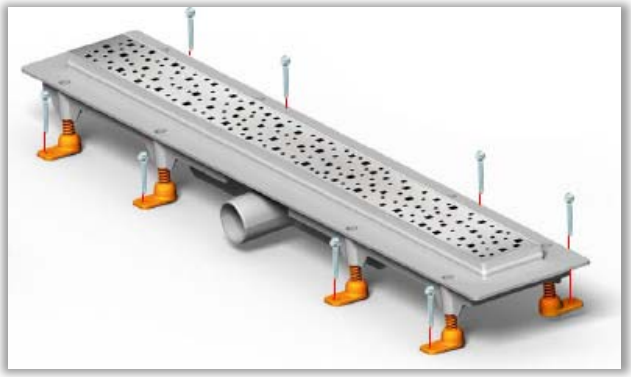
1. Ensure that your subfloor is flat and level. If not, use leveling compound before beginning installation.
2. Locate the drain on your subfloor and test fit any preformed pan sections or float sticks to be used In your installation. Ensure a smooth transition from slope to drain flange. (Highlighted in Red)
3. Dry fit and layout drainage pipe ensuring it meets local code for slope.

4. Affix the Orange tabs to the floor using included fasteners.

   If installing on concrete mark the locations for the fasteners and drill and install included anchors before proceeding to attach the drain to the floor as above.

   If installing wall flange attach flange to wall with counter sunk moisture resistant screws.

5. Check for level. Adjust with Philips head screwdriver via orange adjusting riser screws.



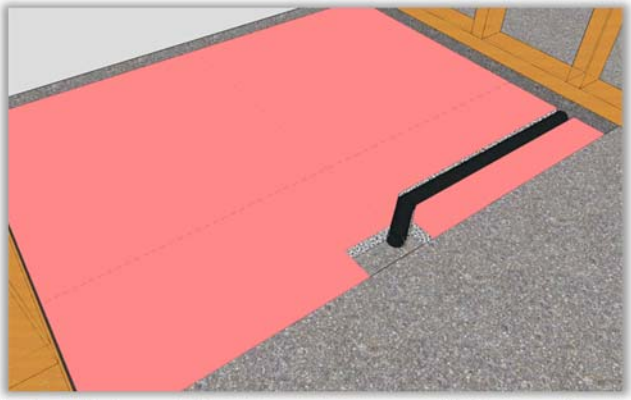
6. Complete installation of drain piping Beginning with a 1 1/2" Adapter. Check local codes for guidelines on slope and required fittings.

7. If using a PSC foam pan system for slope cut and dry fit pan to allow for the drain pipe (as seen to the right).

8. Pack space under flange with drypack mortar (mix to bags instructions)

9. Install tray using dry pack mortar or preformed foam pan with 1/2 square or V notch trowel.

10. When the pan is set (and dry if using a dry-pack mortar pan) you may proceed. This may take up to 48 hours depending on ventilation. (Preformed pans are often ready to work on immediately (please use a board to support your weight evenly on the foam until tile is installed)



11. If you are using a foam pan now is the time to pack the channel containing your pipeing with drypack. Once dry you may proceed to begin water-proofing.

12. Layout and apply your included self-adhesive seam strip to the drain flange all the way around the flange overlapping in the corners my the width of the band.

13. Waterproof your shower.

    If using PSC–WP membrane Continue, if not follow manufactures recommendations for you waterproofing system.

Waterproofing with PSC WP waterproofing membrane

We recommend installing starting at the drain flange and layering upward. This is not required but ensures a quality installation. If you are particularly pressed for time you may precut the floor sections and install them last. Care must be taken to avoid damaging the pan with point loads or flushing debris down the drain.

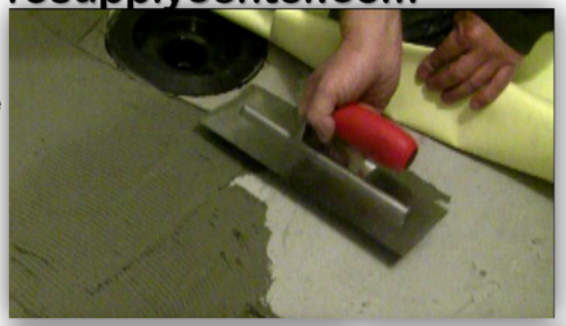
1. Begin with the base of the shower or wet-room. Your membrane will be 39 1/2" wide and requires 2" overlaps on all joints. Layout your membrane accordingly. Cut to fit around the opening in the drain flange and walls tightly, ensuring 2" overlap at all seams and joints.

2. Mix thinset slightly wetter than factory recommendations for your brand, you want a creamy consistency which is easy to spread but does not slump.

3. We recommend the use of a 3/16 x 3/16 V notch trowel, if you do not have access to one you can also use a 1/4" by 3/16" V-notch up to a 1/4" by 1/4" square notch trowel.

   Begin spreading thinset over the flange with self-adhesive membrane installed, pulling outward and away from the drain. I
   f working a small area shower you may procced to lay thinset over then entire pan.

   If installing a larger area work away from the drain toward the exit in 40" increments as to allow you to lay membrane as you go.



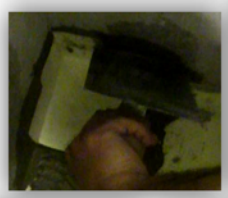




4. Install the pans membrane by vigorously working the membrane into the thinset with the smooth side of a trowel or wooden float. Continuously check for trapped air and work them out from beneath the membrane. (Do not allow any air bubbles to remain, do not puncture membrane to remove air bubbles)

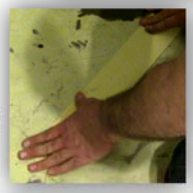
5. If you have more than one piece of membrane required to cover the floor/pan, thinset an overlap by 2" and proceed as above until pan is complete.






6. 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.

7. 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.




8. 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.



9. 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.

   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 to avoid damaging the membrane.




10. 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.





11. 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.

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.

If you must walk on the uncured surface use a sheet of plywood to spread out your weight. Do not apply point loads with ladders or scaffolding without protecting the membrane and pan.

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.)**