

PlumbingVoid™ System Technical Notes

The PlumbingVoid™ System is comprised of polypropylene plastic and #3 rebar. The polypropylene material is manufactured as a fluted plastic panel with perpendicular supports connecting the exterior faces in order to form a rigid sheet. This plastic sheet is used to manufacture the side panels, bulk heads and TopCaps™ that form the shell of the PlumbingVoid™ System. These plastic components are held in position with pre-manufactured U-shaped rebar and connectors to form a rigid system that resists applied soil pressures. After the side panels and bulk heads have been assembled with the appropriate structural U-shaped rebar and connectors, the clevis bracket spacing is determined. Additional U-shaped rebar and provided washers are positioned on the top of the side panels in order to temporarily suspend and slope the pipes. Embed plates near the top of the threaded rod are anchored into the slab. Interior spacers are positioned above or below the piping to provide additional lateral support. After the piping is inspected in the open system, the slit-scored TopCaps™ are formed and held into position with U-shaped rebar to create a top that encloses the system. Once the PlumbingVoid™ System is backfilled, the underlying, swelling soils can now vertically expand into the empty space, therefore eliminating the costly damage from leaking and broken pipes.

TYPE AVAILABLE

- ◆ PlumbingVoid™ System

TECHNICAL DATA

- ◆ U-shaped bars - # 3 Rebar - conforms to ASTM, A-615 standards - plain carbon-steel
- ◆ Sides & Top Cap - ½" thick or (13 mil) polypropylene plastic

COMPONENT DIMENSIONS

- ◆ Height - approximately 24" to 36"
- ◆ Width - approximately 12" to 24"
- ◆ Length - approximately 48"

ADVANTAGES

- ◆ Lightweight
- ◆ Components are easy to install when assembled in sequence
- ◆ Rebar supports positioned approximately 12" on center resist lateral soil pressures
- ◆ All plastic components are impervious to water
- ◆ Top U-shaped rebar space the sides and support the suspended plumbing

INSTALLATION RECOMMENDATIONS

- ◆ Excavate trenches wider than the system in order to position assembled sections
- ◆ Excavate trenches deeper for a granular material that supports system during inclement weather
- ◆ Place lateral pieces at base of trench before installing system to help support system in damp soil
- ◆ Position U-shaped rebar into the open flutes of the side retainers approximately 12" on center
- ◆ Position top rebar supports
- ◆ Position all-thread/clevis hangers which suspends the piping
- ◆ Position interior spacers to provide additional lateral support
- ◆ Adjust clevis hangers to the required elevation
- ◆ Install top cover material