

**Installation Specifications  
Vacuum Inserted Sewer Clean-Out  
VAC-A-TEE®**

**1. INTENT**

It is the intent of this specification to provide a cost effective installation of a sewer lateral clean out without conventional excavation.

**2. GENERAL**

The VAC-A-TEE® product and process consists of locating a sewer lateral pipe by the most effective means available to the installer. The most common method utilized and associated with the VAC-A-TEE® process consists of inserting a video camera with an internal sonde into the lateral service line from the mainline pipe. Locating the lateral pipe is achieved with a receiving unit and marked on the surface with a flag. Once the lateral pipe has been located, a borehole approximately sixteen-inches (16") in diameter is created by vacuum excavation. A saddle is affixed to one end of a PVC riser pipe utilizing a solvent weld. A two-part epoxy is then applied to the underside of the saddle. The pipe and saddle are inserted down into the hole with the saddle end first, to snap fit onto the exterior of the lateral pipe. The saddle is pressed down onto the lateral pipe whereby the saddle expands under the downward force until the bottom most portion of the saddle has surrounded more than fifty percent (50%) of the pipe diameter. Once the saddle has surrounded more than half of the pipe and passes the spring line of the pipe, the saddle retracts thus pulling it downward and snaps as it encompasses a majority of the pipe. The saddle is a self-supporting component, which allows the resin to cure without affecting the integrity of the seal to the host pipe. Once the resin has cured, the crown of the pipe is cut out and removed by use of a diamond bit core saw. An approved clean-out cap is installed and the annular space between the borehole and the riser pipe is filled with flowable fill. The fill is added until the void between the borehole and new riser pipe has been brought to within six-inches (6") of the surrounding grade. The surface is then restored to its original condition. The process shall be VAC-A-TEE® or equal.

**3. MATERIAL**

The material shall be a one-piece, molded PVC saddle and shall be compatible with the riser pipe. Solvent welding the riser pipe into the saddle boss. The saddle shall conform to the lateral pipe by a snap fit where the lateral pipe is either four (4") or six (6") in diameter. The riser pipe shall be SDR 35 or SDR 26 PVC. The resin will be a two-part marine epoxy and the catalyst shall be designed for the specific application of adhering the saddle to the lateral pipe by a chemical bond.

**4. INSTALLATION PROCEDURE**

- 4.1** The vacuum excavated borehole shall be approximately sixteen-inches (16") in diameter and all spoils are to be deposited in a vacuum truck.

4.2 The resin shall be applied to the underside of the saddle at no less than 1/4" thickness.

5. **TESTING PROCEDURE**

5.1 The riser pipe shall be filled with a minimum 6' column of water and a hydrostatic test shall be performed. The column of water shall be held for five minutes. The water level shall be measured from the top of the riser pipe.

5.2 No drop in water level shall be allowed during the five (5) minute time period. The crown of the lateral pipe shall be cut open a minimum of ninety-percent (90%) equal to the diameter of the riser pipe.

6. **DEVIATIONS**

Should soil conditions reveal running sand or similar conditions that would prohibit the installation, the installation shall be terminated and the borehole filled with flowable grout. The surface area shall be restored to its original condition.

7. **CLEAN-UP**

The site will always be left clean and the property restored to conditions equal to site conditions prior to the VAC-A-TEE® installation.

8. **FINAL ACCEPTANCE**

Upon completion, the installer will deliver a videotape of the completed work to the owner. The owners will review the documentation and the site to determine that the scope of work is complete and the work is satisfactory.

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