

Inside Caulk Cast Iron Closet Flange

Tools needed: wood screws, concrete anchors, drill bit, screw driver, screw gun, torch, lead ladle, lead, oakum, wax, rag, hammer and inside caulking chisel

Note: Before beginning installation, place a rag or similar item in the DWV pipe to prevent debris, tools etc. from falling into the drain pipe during installation.

CAUTION: This method of Closet flange installation is only for Cast Iron Soil Pipe. It should not be used with any other types of pipe.

1. Check local plumbing codes for any restrictions that may exist in your area.
2. Gather parts and tools required for job. This includes PPE such as gloves and safety glasses as examples.
3. If an existing flange is in place, remove it and clean the work area.
4. Inspect the DWV pipe for sharp edges or burrs. If any exist, remove to assure a smooth mounting surface.
5. Remove the closet flange from the box and assure that no packaging material remains.
6. Slide the closet flange over the cleaned DWV pipe until toilet mounting flange contacts the floor.
7. Align the closet bolt slots in the proper orientation to assure the toilet will be properly aligned when installed.
8. Once properly aligned, make sure there is equal distance around the circumference of the caulk area.
9. Closet flange should sit level on the floor. The flange should not sit below the surface of the floor. If needed, add shims to the closet flange.
10. Once the closet flange is in place and properly aligned, install oakum. Oakum will need to be packed into the caulk area all the way to the bottom of the closet flange. *Do not pack the oakum in an uneven manner, as this will cause the flange to shift and become unaligned. A gap of approximately 3/4" to 1" of space should be left above the oakum and the top of the DWV pipe. This area will be used for the lead.
11. Use a torch to melt the lead in a lead ladle slowly. Once all the lead has turned liquid, the pour can begin.
12. Lead should be poured evenly around the full circumference of the DWV pipe in one pour. If multiple layers are needed to achieve the full 3/4" to 1" thickness, repeat step 11.
13. After the pour, a waxed rag can be used to smooth out any imperfections in the semi-solid lead. Do not smooth the lead while it is still fully liquid.
14. After the lead has cured to a solid state, caulk the joint with a hammer and the inside caulking chisel. Start against the outside edge of the lead, and gently tap the lead down with the chisel. Perform the same step to the middle and inside edge of the lead. Continue around the entire circumference of the joint.
15. Remove all items inserted in the DWV pipe. Install the toilet according to the manufacturer's instruction.

Note: See the Jones Stephens catalog for a wide selection of oakum, lead, lead ladles, closet bolt kits and wax rings.

