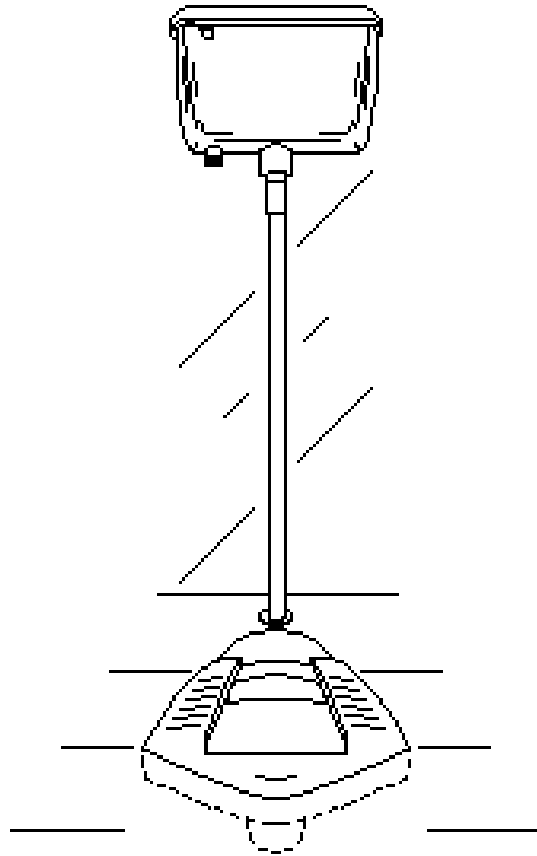


# Installation Guide

## Floor Level Toilet



BEC-116BT

# Important Information

## Blue Earth Ceramics

### **WARNING: Risk of injury or property damage.**

Please read all instructions thoroughly before beginning installation, including the following requirements.



Install to permit access for servicing.

**NOTICE: Follow all local plumbing codes.**

### **Product Notices**



**WARNING: Unauthorized modification may cause unsafe operation and poor performance of the floor level toilet.** Do not relocate tank, or make other modifications to the floor level toilet system, as this could adversely affect the performance and safe operation of the toilet. Blue Earth Ceramics shall not be liable under its warranty or otherwise for personal injury or damage caused by any such unauthorized modification.

### **Kit Components**

#### **Bowl box components include:**

- One- Floor-Level-Toilet bowl with spud inlet nut installed.
- Two- 23- 3/8" long sections of flush-pipe.
- One- Floor/ Bowl template.

### **Tank box components include:**

- One- Wall hung toilet tank with inner mechanism(s).
- One- Literature kit in zip lock bag, which includes:
  - ▶ One- BEC-116BT Specification sheet.
  - ▶ One- BEC-116BT Rough in sheet.
  - ▶ One- BEC-116BT Installation guide.
- One- Flush-pipe hardware kit in zip lock bag, which includes:
  - ▶ One- 2" PVC female adapter fitting.
  - ▶ One- 2 x 1- 1/4" PVC bushing fitting.
  - ▶ One- 1- 1/4" PVC female adapter fitting.
  - ▶ One- 1- 1/4" PVC coupling.
  - ▶ One- 1- 1/4" x 5" section of PVC pipe.
  - ▶ One- 1- 1/4" escutcheon.
- One- Tank-mount hardware kit in zip lock bag, which includes:
  - ▶ Two- Stainless steel bolts.
  - ▶ Two- Matching wall anchors.
  - ▶ Two- Stainless steel wood screws.
  - ▶ One- Ballcock supply tube connector nut.
- (Note: Optional spud-access-well kit not included. Kit available from manufacturer.)

### **Installation Instructions:**

1. Determine the routing requirements for the new drain (see item #8 for details) and water lines.
2. Based upon the site locations of the available drains and water pipes, and upon the dimensional drain requirements as shown in the rough-in-dimension sheet, determine the most suitable mounting style to be employed in mounting the toilet. If there is less than approximately 14" of space available between the finished floor and the invert of the proposed toilet drain, then either a raised toilet installation, such as a platform installation, or possibly a soffit drain routing will become necessary.
3. If the installation is a wood-frame type installation, then header off the floor joists as per the rough-in-dimensions sheet.
4. If needed, build a platform or soffit as per the rough-in-dimensions sheet.
5. Locate and rough-in the drain according to the rough-in-dimensions sheet.

6. Rough-in the water for the new toilet according to the rough-in-dimensions sheet.
7. If making a wood-frame installation, do the following (otherwise skip to step 8 below):
  - a. Cut a hole in the floor using the enclosed template sheet, as packed in the bowl box.
  - b. Using the access-well cap as a template, mark and cut a hole in the floor for the access well as shown in the rough-in-dimensions sheet.
  - c. As shown in the rough-in-dimensions sheet, drill a 1- 3/4" diameter hole centered 4" off of the back wall, to accommodate the flush pipe as it passes through the floor.
  - d. Set the bowl into the joist-work as shown on the rough-in-dimensions sheet.
  - e. Check bowl for being level with floor. If needed, adjust the two "shim-blocks" as needed to assure the proper level of the toilet.
  - f. Now skip to step 9 below.
8. If making a slab or concrete decking installation, do the following:
  - a. Cut a hole in the slab as shown in the rough-in-dimensions sheet page 8.
  - b. Using a cement blade on a circular saw and the supplied template, and the access well cap, grind out a recessed area 3- 1/2" deep as shown on page 9 of the rough-in-specification sheet.
  - c. As described on the rough-in-specification sheet, cut two 2 x 2 x 1" cut brick shims from high strength brick.
  - d. Shim height can be altered as needed to set level of front of bowl to even with finished floor. After leveling toilet, permanently set bowl in place by bedding in grout at each of the three support points, C & D as shown on page 9.
9. Connect the bowl drain ( NO TRAP) to a 3" drain pipe using a 3" Fernco clamp or no-hub clamp. (For model BEC-1043 (14") only, utilize the supplied 3" hose clamp and 90° PVC elbow to connect the site drain to the bowl.)
10. Mark the tank center point on the wall using an "x" 57- 1/2" above the floor.
11. Place a pencil mark 8 5/8" from the right back outside corner of the tank rear along the tank top lip at the center of the rear top of the tank.
12. With a helper holding the tank with the pencil center mark on the tank aligned directly over the center mark on the wall use a level to level the back wall of the tank.

13. Insert a thin nail through each of the two holes in the back of the tank and make indentations or marks on the wall.
14. Set the tank aside momentarily. Using a nail and a hammer, hammer the nail through the sheet rock centered upon each of the two new indentation marks. Carefully note whether or not either of these holes hits a stud. If either hole is located squarely over a stud, it will be necessary to use one of the supplied 2" long stainless steel wood screws to anchor the tank to the wall through this hole. If either hole grazes or misses the side of the stud then the supplied drywall expansion anchors can be used to anchor the tank through these holes.
15. In each of the holes requiring a drywall expansion anchor insert a drywall expansion anchor.
16. For each dry wall expansion anchor screw in the anchor screw until the expansion anchor is fully extended. Then remove the screw.
17. Remove the perforated iron flat bar (approx. 14" long) from hardware kit. Fasten bar securely to wall in such a way that two of the holes in the bar are centered over the two new tank anchor points in the wall. While attaching the flat bar, try to locate at least one stud in the wall and fasten the flat bar directly to the stud(s) using one or more of the remaining holes.
18. Attach the tank to the wall using either stainless steel wood screws or the stainless steel machine screw if screwing into a drywall expansion anchor.
19. Thread the 2" PVC female adapter onto the threaded portion of the tank outlet below the flapper valve using Teflon bearing pipe dope.
20. Screw the 1 1/4" PVC female adapter onto the threads of the bowl inlet brass spud using teflon dope.
21. Using the supplied bushing, elbow, coupling, 1- 1/4" pipe sections, and PVC glue (PVC glue available at local hardware supplier) to assemble the drain pipe connection between the tank and the bowl as shown on the attached rough-in specification sheet.
22. Install a standard 5/8" o.d. x 3/8" o.d. compression angle stop valve on the copper water inlet pipe.
23. Install a standard 3/8" o.d. toilet supply tube between the inlet valve and the ballcock.

24. Turn on the water at the inlet valve and test the fixture for leaks.
25. Adjust the water level in the tank to 1" below the tank overflow tube using the set screw on top of the ballcock.
26. If this is a slab installation, the area at the base of the flush-pipe can now be filled in with mortar mix, and tiled over. Be careful not to fill the access-well during this step, so that access to the spud connection will not be impaired.
27. Grout the bowl and access-well into place. The amount of grout required can be greatly reduced by packing rolled strands of material such as duct-tape or newspaper into the joint around the bowl, and tamping them down to approximately ½" below the floor level. Grout can then be applied above these strands.