

Cistern Installation Procedures

1. Excavation [Figure 1]

- Backfill depth [A] (above lid) may range from 8" to 24".
- Side wall and end wall allowance [B] should be between 18" and 24".
- Bedding [C] should be a well-compacted sand/gravel mixture with a minimum depth of 6" in soil terrain and 12" in rock terrain.
- Shift tank from side to side to help "settle" tank into bedding.

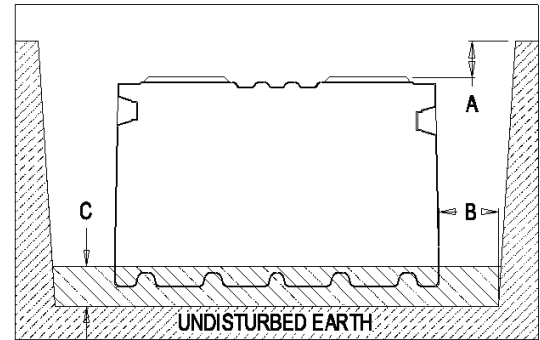


Figure 1.

2. Lid and Manhole Extension [Figure 2]

- Install the lid and/or manhole extension before the addition of water into the tank and backfill. (See back of this page for detail of lid and manhole extension installation.)
- Note that inlet is higher than the outlet.

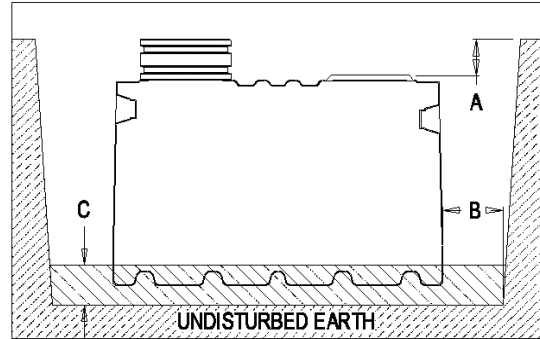


Figure 2.

3. Backfilling Exterior and Filling with water

- Place 12" of water into the tank before beginning backfill; then keep the water level even with backfill level as backfilling progresses [Figure 3].
- Begin backfill at ends first. Continue to backfill around the perimeter of the tank in 12" layers. Compact each layer. Always compact ends first. NEVER BACKFILL ON ONE SIDE ONLY. BACKFILL ALL OF THE OUTLINE OF THE CISTERN UNIFORMLY.
- Once the water level reaches the outlet, backfill to the surrounding level to a maximum of 24" above lid.
- Mound the soil over the cistern to provide positive drainage away from the tank and to allow for soil settling in the excavated area. [Figure 5]

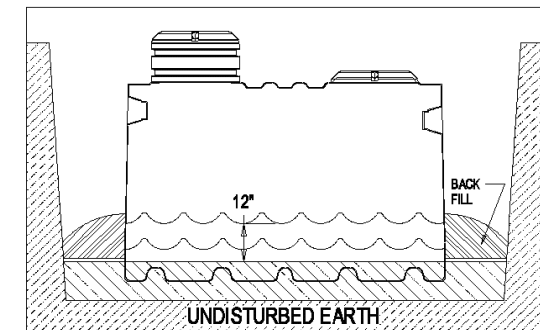


Figure 3.

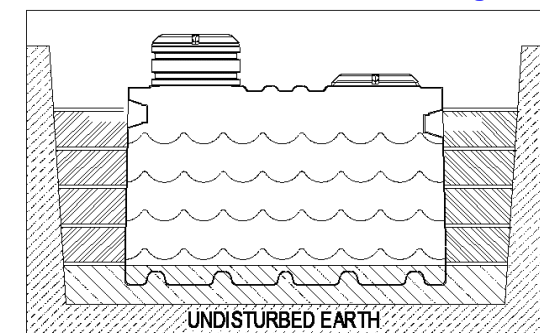


Figure 4.

4. General

- Avoid installations in water-saturated clays and / or high water tables. Installations in these conditions may cause the tank to collapse.
- Do not install the tank in paths of heavy equipment or vehicular traffic.
- Tank is designed for underground use only.
- Never use sharp objects around the tank. They may puncture the tank.
- Cistern must be vented.
- Seal lid and riser with silicone caulking.
- Never leave tank completely empty for extended periods of time.

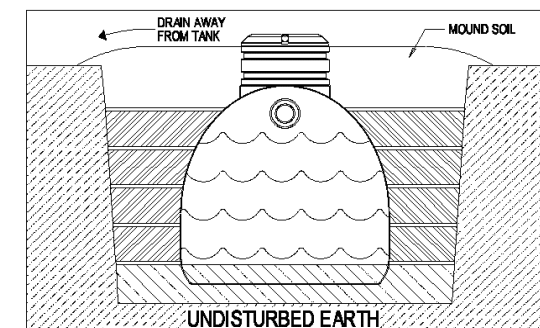


Figure 5.

Cistern Installation Procedures

Securing Lid to Tank or Manhole Riser

1. Apply appropriate sealant to sealing surface(s). [Figure 9]
2. Place lid onto the top of the tank and/or riser and line up the internal locking tabs. Push down firmly and rotate lid clockwise 1/16 of a turn to lock into place. (if it is not possible to engage the locking tabs in the slots, remove tabs with knife and proceed to next step.)
3. Install four self-tapping bolts (included) through the bolt holes in the lid and into the tank wall. [Figure 7]
4. If tamper resistant bolts are required or desired, utilize bolts and driver bit supplied in tamper-resistant kit (part no. 3471197) optional.

Figure 6.

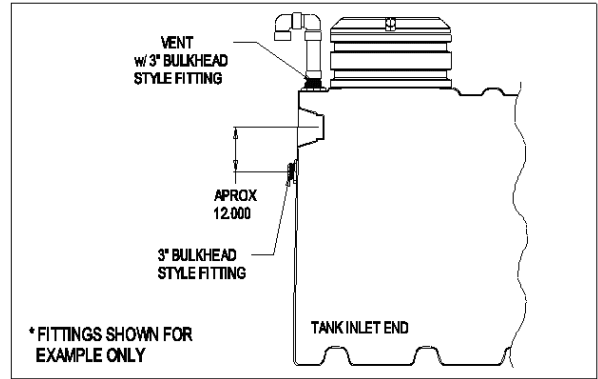


Figure 7.

Securing Manhole Riser to Tank or Another Riser

(Risers are stackable)

1. Apply appropriate sealant to sealing surface(s) [+], [Figure 9]
2. Place riser onto the top of the tank and or riser and line up the internal locking tabs. Push down firmly and rotate riser clockwise 1/16 of a turn to lock into place.
3. Install four stainless steel screws (not supplied) at 90° intervals as shown in [Figure 8] [C] & [D].

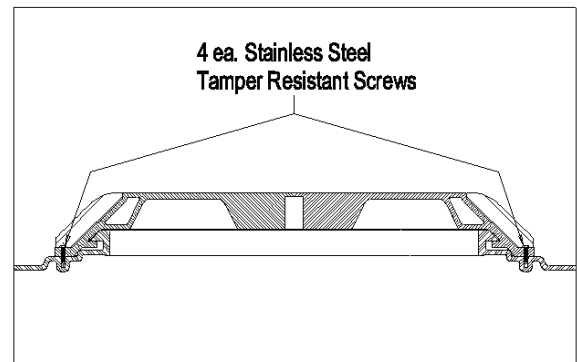


Figure 8.

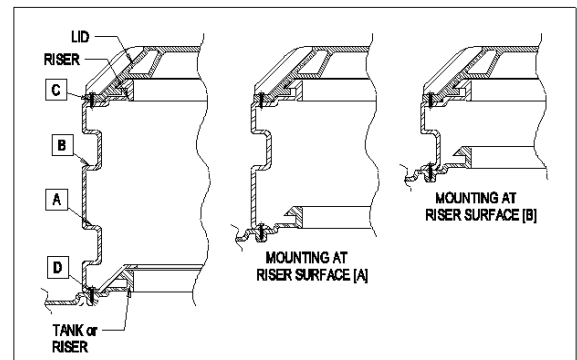


Figure 9.

