



# ADVANCED WATER ENGINEERING, INC.

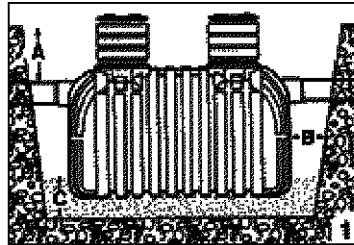
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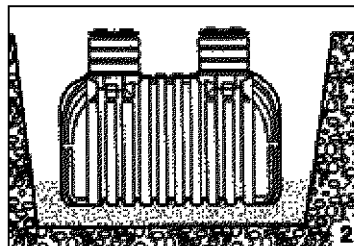
[www.advancedwater.com](http://www.advancedwater.com)

## UNDERGROUND CISTERN INSTALLATION PROCEDURE



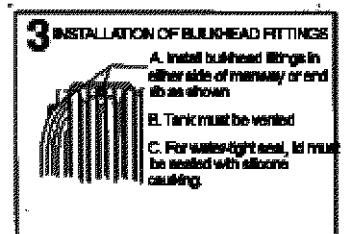
### 1. Excavation

- Backfill cover (A) may range from 6" to 30"
- Sidewall and end wall allowance (B) should be 18" to 24"
- Bedding (C) should be a well compacted sand/gravel mixture: 6" minimum in soil terrain, 12" minimum in rock terrain.



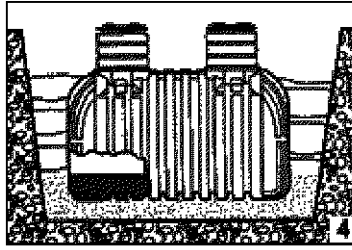
### 2. Lid and Manhole Extension

- For proper fit, install the lid and/or manhole extension before you put water in the tank and backfill.
- Please note the direction of flow - the inlet is higher than the outlet.



### 3. Installation of Bulkhead Fittings

- Install bulkhead fitting (1 1/4" or smaller) in either side of manway or end rib as shown.
- Tank must be vented
- For water-tight seal, lid must be sealed with silicone caulking.

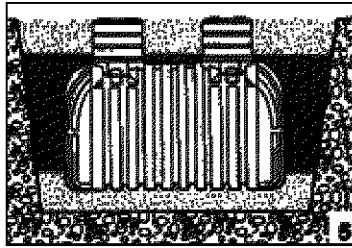


#### 4. Backfilling Exterior and Filling with Water

- CAUTION: Start filling the tank with water when you begin to backfill, keeping the water level even with the backfill level as you go.
- Backfill in 12" maximum layers with a well compacted sand/gravel mixture. ALWAYS COMPACT ENDS FIRST.
- Tamp and compact backfill under inlet and outlet pipe.

#### 5. Backfilling the Top of Tank

- Once the tank is filled with water, backfill to the surrounding level to a maximum of 30".



#### General Notes

- Do not install tank in water-saturated clay or in high water table.
- Do not install tank across the path of vehicles or heavy equipment.
- The tanks are designed for below ground use only.
- For a water-tight seal, lid must be sealed with silicone caulking.
- Cistern tanks should remain one-fourth full at all times.

Failure to comply with installation procedures and general notes will void the warranty.