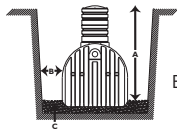




# UNDERGROUND TANK INSTALLATION INSTRUCTIONS

For septic installations, it is important to contact your local or state sanitarian regarding approved installation procedures. Refer to SITE SELECTION/PREPARATION located on the Norwesco website. Water runoff caused by sloping terrain, adjacent structures, or paved surfaces can be problematic if the site selection and installation are not managed properly. Refer to SITE SELECTION/PREPARATION located on our website on the proper managing of these issues. Failure to locate the tank site properly in areas of water runoff caused by sloping terrain adjacent structures or paved surfaces, and/or not managing the installation properly can void the warranty.

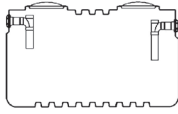
## 1 EXCAVATION



- A. Excavate to a depth that will provide a minimum of 6" and a maximum of 30" of cover over the top of the tank. This will avoid collapse and over-expansion of the tank and possible leakage.
- B. Allow 18" to 24" on both sides and both ends of the tank. Failure to comply with allowance ranges could cause tank collapse.

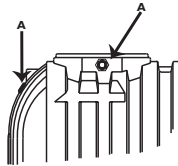
C. The preferred tank bedding material is well packed sand with minimums of 6" in soil terrain and 12" in rock terrain. Native soil can be used if it is flowable, compactable, rock free, and can provide uniform tank support in the recessed rib areas. The tank should be installed level.

## 2 SEPTIC AND BRUISER TANK INLET/OUTLET CONNECTIONS



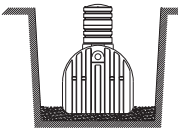
- A. Septic tanks 750 gal. and larger and blue BRUISER tanks are supplied with gaskets and tees or septic adapters and tees. The PVC adapter has two sockets for use with either 4" Schedule 40 pipe, or 4" SDR 35 Pipe.
- B. Inlet and outlet piping should be solvent welded to tees or adapters using standard PVC cement.
- C. 200, 300 and 500 spheres and 500 septic tanks do not come with PVC tees & gaskets or PVC tees & adapters.

## 3 WATER TANK CONNECTIONS



- A. Install bulkhead fittings in either side of manway or end rib as shown.
- B. Tank must be vented.
- C. For water-tight seal, lid should be sealed with silicone caulking. Re-use stainless steel screws supplied with lid.

## 4 MANHOLE EXTENSIONS



- A. Install manhole extension before you backfill.
- B. Manhole extensions are supplied with gaskets and screws. Re-use the lid gasket and screws to attach the lid at the top of the manhole extension.
- C. Note the direction of flow. The inlet is higher than the outlet.

## 5. BACKFILLING EXTERIOR



- A. CAUTION: Fill tank with water as you backfill, keeping water level even with backfill level as you go to prevent possible collapse.
- B. Backfill with 12" layers and compact each layer. ALWAYS COMPACT ENDS FIRST.
- C. Tamp and compact backfill under inlet and outlet pipes.
- D. Maximum backfill over the top of the tank is 30". Mound soil over the top to provide positive drainage.

## 6 BACKFILL MATERIALS

The preferred material for backfill surrounding and covering the tank is a sand/gravel mixture as described below. For blue BRUISER tanks and white cistern tanks, native soil may be used for backfill and those tanks may be left empty while backfilling. For yellow and green septic tanks, the sand/gravel mixture is required and the tanks must be filled with water during the backfilling process. BRUISER tanks and cistern tanks should be filled one-fourth full after installation.

- A. The sand/gravel mixture should be a mixture of sand and gravel, 100% smaller than 1-1/2" and about 50% smaller than 1/4".
- B. All fill should be free of any wood, masonry debris, silt or clay.

# CAUTION

## FAILURE TO COMPLY WITH THE POINTS BELOW VOIDS WARRANTY

- A. Do not install any tank in water saturated clay or in a high water table. The tank may collapse and its contents will escape.
- B. Tanks are not fire-resistant. Do not store them near an open flame or heat in excess of 180°F.
- C. Do not install any tank under the path of vehicles or heavy equipment.
- D. If any size yellow septic tank or green 500 gallon septic tank is pumped for normal maintenance, it should be refilled immediately. If a blue BRUISER tank or a white cistern tank is pumped empty, it should be re-filled to one-fourth of capacity. Spherical 200, 300 and 500 gallon tanks may be left empty.
- E. Norwesco yellow septic tanks, green 500 gallon septic tanks, black pump tanks, blue BRUISER tanks and white cistern tanks are designed only for use as underground tanks.
- F. Norwesco yellow septic tanks cannot be used as holding tanks or pump tanks because the tank may collapse if it is left empty underground. Blue BRUISER tanks, white cistern tanks, and 200, 300 or 500-gallon spherical tanks can be used for holding or pumping applications where permitted by local codes.
- G. White cistern tanks and blue BRUISER tanks are made of resins that meet FDA specifications for the storage of drinking water and can be used for that application. Yellow septic tanks and black septic tanks must not be used for drinking water.
- H. Protect the tank from sharp objects which could puncture it and cause leakage.

Norwesco advises against the use of a plastic underground tank for **any** other uses! Such uses would void any Norwesco product warranty either stated or implied. In no event shall Norwesco be held liable for any consequential damages.

## WARRANTY

The Norwesco underground tanks, when installed in accordance to manufacturer's instructions, are warranted against defective materials and/or workmanship for a full three (3) years from date of manufacture. Should a defect appear within the warranty period, Norwesco will supply a new, equivalent tank in replacement thereof. Norwesco's liability is limited to the value of the tank itself and specifically excludes the cost of installation and/or removal and consequential damages.



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