



Required Information To Purchase 20,000 Gallon Below Ground Tanks

#1. Distributor Must Collect And Verify All Of The Following Information Before We Will Accept A Purchase Order For A 20,000 Gallon Below Ground Tank.

Installer Information

Installer Company Name

Installer Company Address

Installer Phone Number

Installer Licence Number

Installer GL or CGL Insurance Certificate Must Be Submitted With This Form

Bond #

Site Information

Describe the application:

How many tanks will be used?

What is going to be stored in the tank?

What are the Gallons Per Minute into the tank?

What are the Gallons Per Minute out of the tank

Soil Type in excavation?

Typical Water Table depth?

Provide photos of site from N,S,E & W / describe terrain:

Are you using pump(s) to move liquid to a drainfield?

If yes, is it permitted to go to a drainfield?

What is the maximum temperature of the material that will be stored in the tank?

How much soil cover will go on top of tank? (2 feet is maximum)

Instructions Signature

By signing this I agree to read and follow the installation instructions below and understand that I will be responsible if the tank is not installed exactly per these instructions. This includes important details about requirements for the installation. i.e. 14,000 gallons of water, 135+ yards of 3/4 minus backfill from top of bedding to bottom of fitting flats and 36 yards of sand bedding being required for installation. A long form instruction is online.

Instructions Signature

Venting Signature

By signing this I agree to individually vent each tank (on top of each tank) to atmosphere. The U-Vent on each tank has to be as large as the largest pipe coming into or out of that tank. Example U-Vent shown in instructions below.

Venting Signature

Review and Order

#2. After All The Information Above Is Completed And Verified, Email It With The Purchase Order To Your CSR. After Reviewing The Documents We'll Let You Know If The Purchase Order Can Be Accepted Or If We Have Further Questions.

20,000 gallon below ground installation requirements

• For septic installations, it is important to contact your local or state sanitarian regarding approved installation procedures.

• Water runoff caused by sloping terrain, adjacent structures, or paved surfaces can be problematic if the site selection and installation are not managed properly. 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. REQUIRED EQUIPMENT



1a. Use transport and lifting equipment adequate for the load and compliant with current safety regulations when handling the material.

1b. You'll need equipment large enough to lift 6400 pounds.



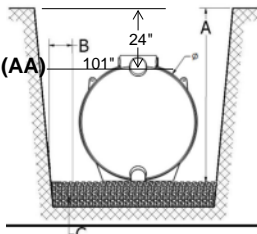
1c. You'll need equipment large enough to lift a tank that is 9' tall, 8.5' wide and 55.5' long.

1d. An excavator large enough to dig a hole: 131" deep (about 11 feet) 714" long (about 59 feet) 150" wide (about 13 feet)



1e. Water truck/access to 14,000 gallons of water. Using a garden hose could take 60 hours to fill tank.

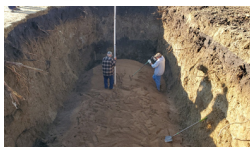
2. EXCAVATION AND REQUIRED BEDDING



A. Excavate to a depth that will provide a minimum of 6" and maximum of 24" of cover over the top of the cylindrical part of the tank (AA) This would be at 101" high from the bottom.

B. Allow 18" to 24" on both sides and both ends of the tank.

C. Prepare the tank bed. Bedding material is well-packed sand — 6" minimum in soil terrain, 12" minimum in rock terrain. The tank should be installed level. 36 Yards of sand will be needed





2. REQUIRED BACKFILL MATERIAL

A. ¾- minus backfill from top of bedding to bottom of fitting flats on top of the tank. Do not use native soil. 135 Yards (or more) of ¾ minus will be needed



3. BACKFILLING EXTERIOR


A. Put 4000 gallons of water in the tank, then start backfilling.

B. Use ¾ minus backfill from top of bedding to bottom of fitting flats on top. Note: Keep water in tank 12" higher than backfill outside the tank during the entire backfill process up to 14,000 gallons.


C. Maximum backfill over the top of the tank is 24" See #2 for details.

D. Mound soil over the top of the tank to direct surface water away from the tank.

4. ADDITIONAL INFORMATION



A. Gaskets: Provided by customer. Use ones similar to our septic tank gaskets.



B. Venting: Provided by customer and required.

C. Traffic Rating: NOT TRAFFIC RATED.

D. Pumping Tank: After installing the tank let the soil settle before pumping the tank dry.

6. OPTIONAL MANHOLE EXTENSIONS



A. 6" Tall X 24" Diameter or 12" Tall X 24" Diameter risers.

B. Manhole extensions are supplied with screws. Butyl rope not included.



7. Buoyancy Control/Additional Ballast

Soil Cover Over Top of Tank (Inches)	Norwesco 20,000 Gallon Underground Storage Tank: Additional Ballast Weight Required (lbs) for the Noted Groundwater Rise Above the Bottom of the Buried Tank (feet)															
	Groundwater Rise Above Bottom of Buried Tank (feet)															
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
6				1500	13000	26000	39000	53000	66500	80000	93500	106000	118000	128500	137000	143500
12	No Additional Ballast Weight Required for Buoyancy Control			1500	15000	28500	42500	56000	69000	82000	93500	104000	113000	119500		
18							4500	18000	32000	45000	57500	69500	80000	88500	95000	
24									7500	20500	33500	45000	55500	64500	71000	

Notes:	<ol style="list-style-type: none"> 1. Assume tank is empty (worst case scenario). 2. Ballast Cover Weight Assumed to be Uniformly Distributed Across Top of Tank. 3. Soil Cover Dry Unit Weight Assumed to be 110 pcf.
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CAUTION

Failure to comply with the points below voids warranty.

- A. Tanks are not fire-resistant. Do not store them near an open flame or heat in excess of 180 °F.
- B. Do not install any tank under the path of vehicles or heavy equipment.
- C. Do not leave tanks empty for extended periods of time.
- D. Only for use as underground tanks.
- E. May be used as holding tanks or for pumping applications where permitted by local codes.
- F. Made of resins that meet FDA specifications for the storage of drinking water and can be used for that application.
- G. Protect the tank from sharp objects which could puncture it and cause leakage.
- H. Maximum temperature of liquid entering tank is 120° F.

WARRANTY

Manufacturer warrants that if this part is proven to be defective in material or workmanship within three (3) years from the date of manufacture, manufacturer will (at company's option) either replace or repair said part. This standard limited warranty does not apply to damages resulting from misuse, improper application of recommended materials, accident, or improper installation or maintenance. Remedy to the buyer is limited to the replacement of any defective product (or its component where applicable), F.O.B. point of manufacture. The buyer's remedy under this warranty does not include any other direct or indirect consequential damages which result from defects in material and/or workmanship of its products.



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Proper Venting Of Each Tank

1. U-Vent can come out of riser (1a) or out of the top of the tank. (1b)



2. Notice how it's the same size as the pipe coming out of the tank.

3. Make sure the U-Vent is the same size or larger than the largest pipe coming into or out of the tank.