

NextGen Septic Tank Requirements

The following minimum specifications applies to all septic tanks used with the NextGen Septic technology. Every state has its own septic tank requirements, which will need to be met, for all installations of the NextGen Septic system requiring a new septic tank.

Tank Construction

1. Dual compartments required for all tanks.
2. Tanks and non-NextGen supplied components must conform to all country, state, province, and local plumbing and electrical codes.
3. Tanks shall be able to support at least 300 pounds per square foot (psf).
4. Inlet compartment must equal 60-75% of total volume.
5. Six feet minimum distance between inlet/outlet
6. Effective length of tanks may not be less than two times, nor greater than four times, the effective width.

Tank Access

1. At least one access manhole (minimum diameter 24") required into each compartment.
2. Tanks with a liquid depth of 48" or more shall have a top opening with a minimum of 24" in the shortest dimension to allow entry into the tank.
3. Tanks with a liquid depth less than 48" shall have a top opening that is at least 20" in the shortest dimension. Each tank will be required to have at least two such top openings in each tank.

**Minimum Septic Tank Capacities & Properties
Based on Number of Bedrooms**

Number of Bedrooms	Septic Tank Size (Gallons)	Minimum Liquid Surface Area (ft ³)
1-3	1,000	27
4	1,250	34
5	1,500	40
6	1,750	47

Notes: Septic tank size requirements for more than six bedrooms shall be calculated by adding 250 gallons and seven ft³ of surface area for each additional bedroom. A garbage grinder is considered equivalent to an additional bedroom for determining tank size.

Compartment Specifications

1. Baffle/compartment separation structure must extend from bottom of tank to at least 6" above the invert of the outlet pipe.
2. Compartments must be connected by a 4" vertical slot at least 18" wide, a 6" elbow, or two 4" elbows located at a distance below the liquid level equal to one-third the distance between the invert of the outlet and the bottom of the tank.
3. Minimum liquid depth shall be 30".
4. Maximum depth for determining the allowable design volume of a tank shall be 60". (Deeper tanks provide extra sludge storage.)
5. Minimum of 1" clearance between the underside of the top of the tank and the top of all baffles, partition and/or tees to permit venting of tank gases.
6. Minimum drop in elevation of 2" between the inverts of the inlet and outlet pipes.
7. Tanks shall have inlet and outlet baffles, sanitary tees or other devices to prevent the passage of floating solids and to minimize disturbance of settled sludge and floating scum by sewage entering and leaving the tank.
8. Inlet and outlet baffles shall extend a minimum of 12" and 14", respectively, below the liquid level in tanks with a liquid depth of less than 40", and 16" and 18" respectively, in tanks with a liquid depth of 40" or greater. Six-inch maximum distance between outlet baffle and outlet.

Multi-tank

1. Tanks in series should be connected by a single pipe with a minimum diameter of 4 inches.
2. Multi-chamber and multi-tank systems shall also be designed to permit the venting of tank gases.