



State of Oregon  
Department of Environmental Quality  
Water Quality Division, Onsite Program

Single-Chamber Septic Tank, Dosing Septic Tank  
Engineered Plan Requirements/Self Certification Form

**Note:** Refer to OAR 340-71&73 for details of a specific rule requirement itemized on the checklist. Specifications identified on the checklist should be clearly shown on the engineering plans submitted.

**Tank Capacity & Configuration:**

- Tank volume (in gallons) below invert:\_\_\_\_\_, operating gallons:\_\_\_\_\_, gallons per inch calculated by Engineer:\_\_\_\_\_. OAR 340-73-0025(11) *These and subsequent details must be shown on the plans.*
- Buoyancy and countermeasures described where on plans:\_\_\_\_\_. 73-0025(11)
- Watertight testing procedure described where on plans:\_\_\_\_\_. 73-0025(3)
- Service access manhole diameter:\_\_\_\_inches (18 inch minimum). 73-0025(2)
- Service riser/gasketed cover described & detailed where on the plans:\_\_\_\_\_. Riser connection at tank described where on the plans:\_\_\_\_\_. 73-0025(2)
- Diameter service access riser:\_\_\_\_inches (20 inch minimum). 71-0220(6)(c)
- Method for securing cover (weighing less than 50 lbs.) to riser described where on the plans:\_\_\_\_\_. 71-0220(6)(c)
- Inlet fitting materials:\_\_\_\_\_ (Sch. 40 PVC or ABS?). Diameter:\_\_\_inches (4 inch minimum). 73-0025(7)(a)
- Air gap above inlet fitting:\_\_\_\_inches (2 inch minimum). Watertight attachment? Y/N\_\_\_\_ 73-0025(7)(f)
- Inlet fitting extends \_\_\_inches below lowest operating liquid level. 73-0050(6)
- Method for watertight pipe connections described where on the plans:\_\_\_\_\_. 73-025(7)(i)
- 10% of tank volume above septic tank outlet Tee invert or dosing septic tank pump alarm float. 73-0025(8)
- Inlet Tee fitting invert level at least 1 inch higher than highest normal liquid level (above outlet Tee invert or pump alarm float). 73-0025(7)(g)
- Inlet and outlet Tee located at opposite ends of the tank? Y/N\_\_\_\_ Watertight riser over inlet of each compartment diameter:\_\_\_\_(8 inch minimum) 73-0025(7)(c)
- Inlet Tee fitting extends \_\_\_inches above the normal high liquid level and \_\_\_inches below the normal low liquid level. The minimum standard is 6 inches above and 12 inches below the normal liquid level. Outlet Tee fitting extends \_\_\_inches above the normal high liquid level 73-0025(7)(d)&(e)
- The outlet Tee fittings or ports in a vault/effluent filter draws at an elevation measured from the inside bottom to \_\_\_% of the lowest operating liquid depth. 73-0025(7)(e)
- Liquid depth:\_\_\_\_inches (not less than 30 inches or greater than 72 inches). 73-0025(1)(c)

- Effluent filter details provided, comply with rule requirements. 73-0056
- Method for watertight pipe connections between effluent sewer connection and outlet detailed by Engineer. 73-0025(7)(i)
- All dosing apparatus can be placed to facilitate ease of service without alterations? Y/N\_\_ 73-0050(4)
- Structural integrity described by engineer. The tank can support an earth load of \_\_\_\_pounds/square foot (300 psf minimum) lateral load \_\_\_\_pounds per cubic foot of equivalent fluid pressure (62.4 pcf of EFP) \_\_\_\_\_ pound wheel load (2,500 pound minimum shall be considered)73-0025 (5)
- Prefabricated tank marked over outlet with liquid capacity, burial depth limit, date of manufacture, full business name or number assigned by the Department 73-0025(10)

### INSTALLATION MANUAL

- Method of protection from the weather:\_\_\_\_\_ (example would be waterproof paper) 73-0025(13)
- Excavation details for tank placement described where on the guide:\_\_\_\_\_. 73-0025(13)
- Tank bedding requirements described where on the guide:\_\_\_\_\_. 71-0220(3)(b)
- Tank backfill procedures described where on the guide:\_\_\_\_\_. 73-0025(13)
- Buoyancy and countermeasures described where on the guide:\_\_\_\_\_. 73-0025(11)
- Guidance provided for water-tight attachment of Riser to top of tank described where on the guide:\_\_\_\_\_. 73-0025(13)
- Guidance provided for secure attachment of riser cover described where on the guide:\_\_\_\_\_. 73-0025(13)
- Guidance provided for attachment of inlet and outlet piping described where on the guide:\_\_\_\_\_.. 73-0025(13)
- Watertight testing protocols described where on the guide:\_\_\_\_\_. 73-0025(13)
- Special precautions or limitations described in manual? Y/N\_\_ 73-0025(13)
- Guidance provided for placement of pump control floats, valves, wiring, or siphon and counter (if applicable) described where on the guide:\_\_\_\_\_. 73-0050(4 & 5) & 73-0055(5)
- Pump control/alarm float placement that provides adequate capacities for surge, and adequate storage volume described where on the guide:\_\_\_\_\_. 73-0055(4).

**Certification. I hereby certify that the engineering plan(s) and specifications as well as installation guide that I have submitted for the tank configuration are complete and in total compliance with pertinent requirements of the OAR 340- 71& 73 Onsite Wastewater Treatment System Rules.**

**Manufacturer**

Signature:\_\_\_\_\_ Title:\_\_\_\_\_ Date:\_\_\_\_\_

**Engineer**

Signature:\_\_\_\_\_ Title:\_\_\_\_\_ Date:\_\_\_\_\_