



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

**Two-Chamber Septic Tank, Combination 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 must be clearly shown on the engineering plans submitted.

Tank Capacity & Configuration:

- Each chamber volume (in gallons) below invert:_____, operating gallons per chamber:_____, gallons per inch per chamber calculated by Engineer:_____. OAR 340-73-0025(11) *These and subsequent details must be shown on the plans.*
- _____% of tank volume above first chamber outlet invert (10% minimum). 73-0025(8)
- 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) for each compartment. 73-0050(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 for burial depths to 3 feet). 71-0220(6)(c)
- Method for securing cover (weighing less than 50 lbs.) to riser described where on the plans:_____. 71-0220(3)(b)(C) & (6)(c)
- Inlet and outlet Tee fitting materials:_____ (Sch. 40 PVC or ABS?). Diameter:____inches (4 inch minimum). 73-0025(7)(a)
- Distance between inlet & outlet Tee fittings:____inches (distance must equal depth at a minimum). 73-0025(7)(b)
- 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 (each compartment) and ____inches below the normal low liquid level (specify for each compartment except dosing chamber). 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 (each compartment)73-0025(7)(d)&(e)
- 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)
- 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 of each compartment:____inches (not less than 30 inches or greater than 72 inches). 73-0025(1)(c)

- Effluent filter details provided, comply with rule requirements? Y/N__ 73-0056
- Method for watertight pipe connections described where on the plans:_____. 73-025(7)(i)
- Pump control/alarm float placement provides adequate capacities for surge clearly shown/described on plans? Y/N where:_____ (1/3 design flow reserve storage minimum that allows for sludge & scum accumulation, and hydraulic retention time without exceeding inlet invert level). 73-0055(4)
- All dosing apparatus can be placed to facilitate ease of service without alterations? Y/N__ 73-0050(4)

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 outlet piping described where on the guide:_____.. 73-0025(13)
- Water-Tight 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).
- Guidance provided for dosing 2nd chamber pass-through for electrical and outlet piping described where on the guide:_____. 73-0050(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:_____