

- WAC 246-272B-06750 Intermittent sand filters.** (1) Intermittent sand filters may be used to meet Treatment Level B.
- (2) Pressure distribution to the filter media is required.
 - (3) The minimum dosing frequency is:
 - (a) Twelve equally spaced timed doses per day for coarse sand; or
 - (b) Six equally spaced timed doses per day for ASTM C-33 sand.
 - (4) The maximum hydraulic loading rate for the sand filter is one gallon per day per square foot.
 - (5) The minimum depth of sand media is twenty-four inches.
 - (6) The influent wastewater quality distributed to the filter media must meet or exceed effluent characteristics from a properly sized septic tank treating residential strength sewage.
 - (7) The minimum horizontal setback from the sand filter must meet the sewage tank requirements in Table 3 in WAC 246-272B-06050.
 - (8) The maximum depth of cover material over the distribution technology is twelve inches.
 - (9) The design engineer shall meet the sand specification requirements in WAC 246-272B-06700(4).
 - (10) The filter bed must be contained in:
 - (a) A flexible membrane-lined pit where the membrane has a minimum thickness of thirty mm and there is a three-inch layer of sand beneath the membrane; or
 - (b) A concrete vessel that is water tight, durable, and structurally sound.
 - (11) The underdrain must be designed with sufficient void storage volume for a single dose to the filter and maintain unsaturated filter material above the underdrain component.
 - (12) Filtrate may be collected and discharged from the bottom of the filter by either gravity flow or a pumpwell system.
 - (13) When filtrate is discharged by gravity, a boot and exit pipe must exit the side of the liner and be installed:
 - (a) By the manufacturer or the manufacturer's representative;
 - (b) So the boot outlet is bedded in sand;
 - (c) With the boot properly secured to the outlet pipe, such as with stainless steel bands, screws, and sealant strips, or as recommended by the manufacturer; and
 - (d) Watertight. If the boot will be submerged in a seasonal high water table, the installer shall test and verify it is watertight.
 - (14) Monitoring ports for intermittent sand filters must meet the requirements in WAC 246-272B-06400 (3)(b).
 - (15) Two monitoring ports must be installed every one thousand square feet in the sand filter and distributed uniformly throughout the filter area.
 - (a) One monitoring port must be installed to the top of the filter media; and
 - (b) One monitoring port must be installed to the bottom of the underdrain.

[Statutory Authority: RCW 70.118B.020. WSR 11-12-035, § 246-272B-06750, filed 5/25/11, effective 7/1/11.]