

5. Solid covers shall be 27" x 23 3/8" x 1 1/2" cast iron (Neenah Foundry 0000-4268 or equal).
6. Under drain piping and inter connecting piping between tanks shall be PVC class SDR 35 min.
7. Piping gaskets shall be compatible with PVC schedule 35 pipe (Hamilton Kent Tylox XT or equal).
8. Filter bed support stone shall be 3/4" washed stone (DE No. 57 or equal) - 8 cu. ft. per filter.
9. Geotextile membrane shall be woven drainage fabric (Amoco 1198, Mirafi-700XG or equal) 16 sq. ft. per filter.
10. Filter sand shall be Concrete sand (AASHTO M6, C-33 or equal) - 16 cu. ft. per filter.

An underbedding of the tanks using 6" of #57 stone on undisturbed or compacted base is recommended.

Shipping weight of standard filter tank: 10,000 lbs.

Shipping weight of Hi-Head filter tank: 13,800 lbs.

Field Tests

Three sand filter systems monitored by the City of Austin, TX. Showed average annual removal efficiencies (%) as follows:

Fecal coliforms (FCOL)	37%
Total streptococcus (FSTRP)	46%
Total suspended solids (TSS)	82%
Total dissolved solids (TDS)	-35 /+ 31%
Biochemical oxygen demand (BOD5)	40%
Chemical oxygen demand (COD)	54%
Nitrite-nitrate nitrogen (NO ₂ - NO ₃)	-32%
Ammonia nitrogen (NH ₃)	60%
Total Kjeldahl nitrogen (TKN)	58%
Total nitrogen (TN)	36%
Total phosphate (TP04)	46%
Copper (CU)	42%
Iron (FE)	72%
Lead (PB)	80%
Zinc (ZN)	70%

Since Delaware's stormwater management regulations require an 80% removal rate of suspended solids the filters appear to meet this requirement.