



DUTCHESS COUNTY DEPARTMENT OF HEALTH  
Environmental Health Services Division  
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## **Graveless Absorption Systems** (General Information)

Graveless absorption systems including the Eljen GSF as well as deep absorption trenches, cut and fill systems, and absorption bed systems shall be considered as alternative systems and shall be permitted in an individual situation because of hardship or other circumstances which make it impractical to comply with generally accepted standards and this policy and standard.

GSF Design criteria in Dutchess County shall be in accordance with 75-A.8.(c).(iii) with exception of the following:

1. Trench designs shall use an application area of 4ft<sup>2</sup>/ft unless project is located within a New York City Watershed area in which case an application rate of 2ft<sup>2</sup>/ft shall be utilized.
2. Bed square footage shall be 1.5 times the square footage for a normal trench absorption system.
3. 100% expansion area shall be designed using a normal trench absorption system.

Installation shall be in accordance with the manufacturer recommendations, the Dutchess County Design and Construction Standards and Appendix 75-A, whichever is more restrictive, and shall include the following:

1. A professional engineer's certification of construction compliance shall be required and made a Condition of Approval on the plans.
2. Eljen GSF shall be installed with 6 inches of washed concrete sand below and on the sides of each unit.
3. Washed concrete sand shall have less than 5% passing a #200 sieve and less than 10% passing a #100 sieve. Quality of washed concrete sand shall be demonstrated by conducting a sieve analysis of the installed sand. Such analysis shall be submitted with the engineer's certification of construction compliance.
4. Trench designs shall be installed with 4 feet of undisturbed soil.
5. Bed designs shall be installed with a minimum 12 inch module separation.