



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

March 14, 2011

David Potts
Geomatrix Systems, LLC
114 Mill Rock East
Old Saybrook, CT 06475

Re: Geomatrix Systems, LLC S-Box™ Proprietary Leaching System Approval

Dear Mr. Potts:

This Department is in receipt of the documentation you submitted that indicates Geomatrix Systems, LLC has acquired all rights and interest in the S-Box, LLC proprietary leaching systems that were previously approved by this Department. Geomatrix Systems, LLC has requested the approvals be re-issued to your company for the Geomatrix S-Box™ proprietary leaching systems. This program has reviewed the documentation submitted on the Geomatrix S-Box™ proprietary leaching system, and is in agreement that the product is essentially the same product as the previously approved S-Box, LLC proprietary leaching system with a few minor differences.

The product consists of a 50-inch long, self-contained and fully assembled module that has an internal, non-woven fabric (Thrace-LINQ) covered plastic core arranged in serpentine fashion. The module is supported by a wire-form support structure. The wire-form is an integral structural component of the system that is left in place upon installation. After each module is placed in the trench excavation, the open spaces between the fabric-covered cores are then filled with sand (ASTM C-33 sand or approved equivalent).

The product has two standard widths of 36 inches and 72 inches. The 36-inch wide product is placed in a 44-inch wide excavation that is backfilled with sand after placement of the unit. The 72-inch wide product is placed in an 80-inch wide excavation that is backfilled with sand after placement of the unit. All products are placed on a 2-inch deep bed of ASTM C-33 sand or equal. Effluent is supplied to the fabric-covered core by a 2-inch diameter plastic distribution pipe that runs across the top of the module. The pipe has two tees in its center span per module that directs effluent directly down into the fabric-covered core. The 36-inch wide products are supplied effluent via a single distribution pipe. The 72-inch wide products are supplied effluent via two parallel distribution pipes.

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The calculated effective leaching area (ELA) and center-to-center spacing for the Geomatrix S-Box™ proprietary leaching systems are as follows:

Product Name	Dimensions (W x H)	Effective Leaching Area (SF/LF)	Center to Center Spacing (feet)
SB1-3.5-36	36" x 3.5"	4.4	7
SB1-7-36	36" x 7"	8.2	9
SB1-13-36	36" x 13"	14.7	13
SB1-26-36	36" x 26"	28.7	13
SB1-3.5-72	72" x 3.5"	8.5	12
SB1-7-72	72" x 7"	15.9	14
SB1-13-72	72" x 13"	28.5	14

Geomatrix Systems, LLC has submitted dated installation instructions for the Geomatrix S-Box™ systems to this office, and they note that Geomatrix Systems, LLC must be contacted for non-residential installations. Also, Geomatrix Systems, LLC specifically requires that all Geomatrix S-Box™ proprietary leaching systems be configured for use with the Geomatrix Soil Air™ System, which entails installing an air supply line for future use. Geomatrix Systems, LLC must ensure that a copy of current installation instructions is filed with this Department.

This Department hereby APPROVES the Geomatrix Systems, LLC S-Box™ proprietary leaching systems with the above noted ELA credits and center-to-center spacings. The Geomatrix Systems, LLC S-Box™ proprietary leaching systems will be incorporated into the next revision of the Technical Standards. This letter may be reproduced in its entirety as a means of notifying local health departments, engineers and installers of the product approval. This approval should not be construed to be an endorsement of this product, nor does it convey intellectual property rights

Sincerely,



Robert W. Scully, P.E.
Supervising Sanitary Engineer
Environmental Engineering Program

C: Suzanne Blancaflor, MS, MPH, Chief, EHS, DPH
Code Advisory Committee
Local Directors of Health
Chief Sanitarians