

# GeoMat Leaching Systems Installation Instructions

GeoMat must be installed according to applicable regulations. If unsure of the installation requirements for a particular site, contact your designer, engineer, regulatory agent or Geomatrix Systems, LLC.

**Note:** Do not install the system in wet conditions or in overly moist soil; this can cause smearing and compaction of the infiltrative surface.

**Note:** The soil between the dispersal trenches shall remain undisturbed. If the presence of boulders or other obstacles make trench construction impractical, contact the system designer before proceeding with the installation.

## **FOR GEOMAT 1200 & 3900**

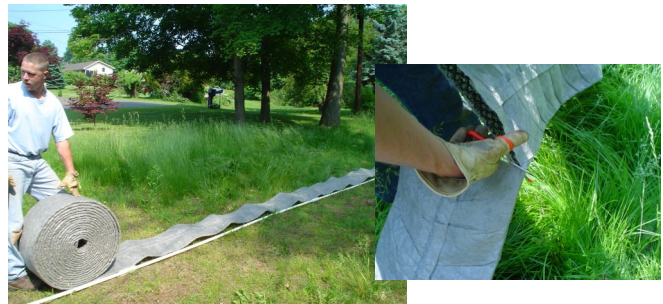
1. Locate and mark out the location of the trenches and manifold. Set stakes to aid in locating the center of each trench. For leaching systems designed for sloping sites mark reference points on each stake according to the designed invert elevation of that particular trench. Ensure trees and shrubs are removed to prevent root intrusion.
2. Excavate trenches to the designed elevation. Trenches must be level. Trenches should typically be excavated 2' longer than the design length and no wider than necessary to install the GeoMat. Rake bottom and sides of each trench to ensure no smearing of fines is present. Remove any cobbles, stones and other debris greater than 2". A 2-3" layer of ASTM C-33 sand may be placed directly under GeoMat when soil conditions necessitate. However, the design elevation must be maintained. If required have the



prepared excavation and any specified backfill inspected by the system designer or regulatory agent prior to GeoMat placement.

**Note:** In fine textured soils prone to compaction, avoid walking in the trench bottom to prevent compaction and loss of soil structure

## **FOR GEOMAT 1200** (for GeoMat 3900 see other side)



3a. Roll out GeoMat 1200. Cut the GeoMat using shears to desired length.

4a. Install GeoMat distribution piping into the mat by feeding it in from one end. The flat section of the GeoGuard™ orifice shield must lay on the GeoMat and the flow of effluent must be directed downward into the GeoGuard. Be certain to glue distribution pipe together using a two part solvent weld glue (purple primer and glue), and SCH40 pressure rated coupling, according to manufactures specifications.



5a. With the GeoMat distribution pipe sticking out of both ends of GeoMat, seal ends by folding fabric over and stapling it to itself with Arrow P22 stapler.



Carefully slide mat along ground and place in the trench. Care should be taken to prevent damage to the solvent weld joints in the distribution pipe when placing the fully assembled GeoMat 1200 in the trench.

## **FOR GEOMAT 3900** (for GeoMat 1200 see other side)

3b. Roll out GeoMat 3900 in the bottom of trench. Cut the GeoMat using shears to desired length.



4b. Install designed distribution piping onto the GeoMat. The flat section of the GeoGuard™ orifice shield must lay on the GeoMat and the flow of effluent must be directed downward into the GeoGuard. Be certain to glue distribution pipe together using a two part solvent weld glue (purple primer and glue), and SCH40 pressure rated coupling, according to manufactures specifications.

Care should be taken to prevent soil from entering the GeoMat after it has been laid in the trench.



5b. Carefully cover the GeoMat 3900 with the fabric Provided. Fold the top fabric under bottom flaps and staple using an Arrow P22 stapler to keep dirt out of the mat while backfilling the system.



## **FOR GEOMAT 1200 & 3900**

6. Install GeoMat distal port on the end of the row directly fed by the distribution manifold. Distal port should ideally be 18" off the end of the mat. Distal end of pipe should be raised slightly to allow effluent to drain from distal head port back to mat. Install distal port so that the top of the distal port is just below grade. Install distal port valve box over distal port.



7. Connect the GeoMat distribution lateral to the header manifold. The header manifold may have flow equalization valves to ensure equal flow to all rows. This is especially beneficial where distribution laterals are at different elevations. The header manifold and equalization valves can be located in the pump tank for ease of use, protection and prevention of freezing

8. Backfill trench(es) with clean suitable cover material. Uniform cover depth over the drain field results in consistent oxygen transfer to the entire system.

9. Cover material should be graded as to prevent storm/surface water intrusion and allow for sheet flow away from the GeoMat system. Seed disturbed area immediately after installation to stabilize soil.



Geomatrix Systems, LLC  
114 Mill Rock Road East  
Old Saybrook, CT 06475  
860-510-0730 – phone  
860-510-0735 – fax  
888-SoilAir - toll free

[info@geomatrixsystems.com](mailto:info@geomatrixsystems.com)  
[www.geomatrixsystems.com](http://www.geomatrixsystems.com)