

LSG SERIES

LOAD SUPPORT GRID



Ideal for MUD MANAGEMENT on farms

PROBLEM:
Muddy uneven surface

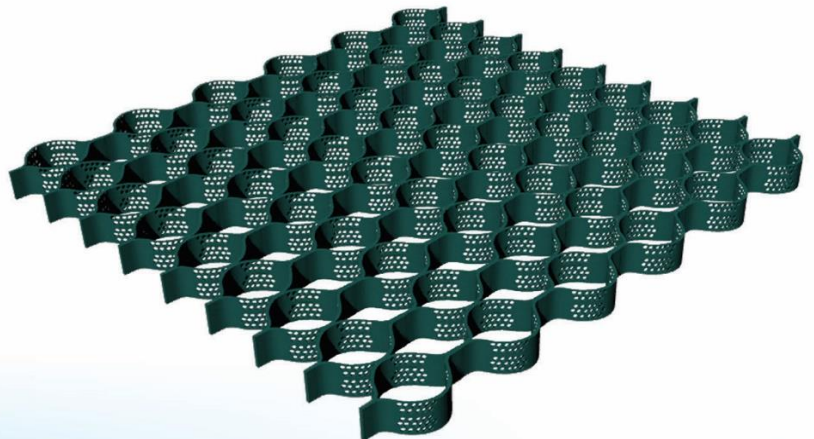


SOLUTION:
Smooth firm surface



LSG Load Support Grid

Long strips of HDPE (high density polyethylene) are ultrasonically welded at intervals of 14" to create a honeycomb-like structure of interconnected 3D cells. The cellular nature confines aggregates (earth, sand, gravel) to stabilize problematic areas around the farm.



- Fast and easy to install
- Low cost
- Permanent solution

CELL-TEK
Geosynthetics

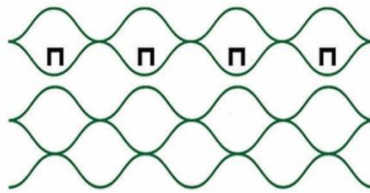
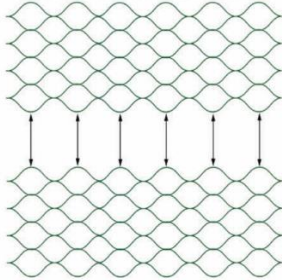
www.celltekdirect.com

THESE INSTRUCTIONS SERVE AS A GENERAL GUIDE. FOR SPECIFICS, PLEASE CALL OUR OFFICE 888.851.0051

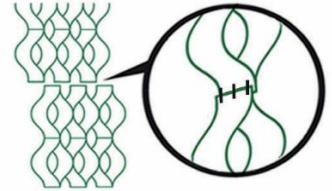
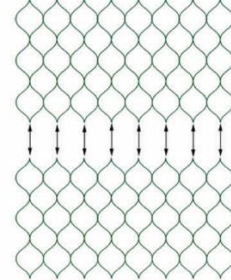
- STEP 1 Prepare subgrade.**
Excavate, compact, and shape foundation soils to proper depth and grade.
- STEP 2 Place underlayment on the subgrade.**
Use a 2 oz. non-woven geotextile fabric. The purpose of this underlayment is to keep the infill materials in the geocells; to prevent them from migrating down into the earth over time.
- STEP 3 Install LSG-3 Load Support Grid (3" cell depth).**
When fully expanded, a single unit of LSG-3 will cover 9' x 23.92'. Be sure to fully expand the cells for best results. Cut the expanded grid to fit the area of your project. Use some of the j-hooks you will use in Step 4 to keep the grid expanded. Interleaf or overlap edges of adjacent sections, connecting the grid to create a continuous matrix of cells. Connect all grid sections.

Connecting Grids:

Connection Type 1
Cell Wall to Cell Wall

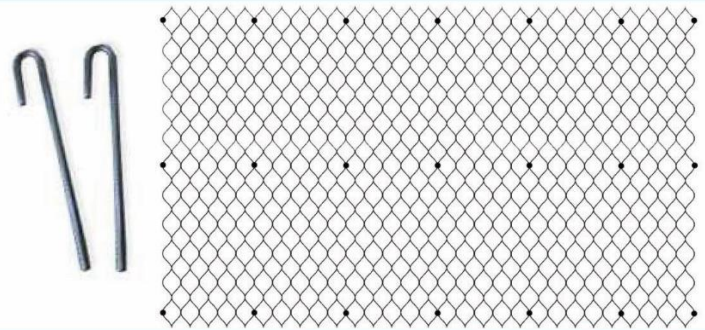


Connection Type 2
Weld End to Weld End



To create a strong seam, apply one staple per inch starting from top or bottom. We offer a hand-held stapler with an extra wide jaw. Use heavy duty staples. Alternately, a pneumatic stapler could be used. For small jobs, drill holes and use 1/4" zip ties instead of staples.

- STEP 4 Install Rebar J-Hooks.**
Install 18" rebar j-hooks every 4 feet in all directions. Rebar j-hooks keep the grid pinned down to prevent the infill material from undermining the grid and lifting it up over time. Be sure to install the j-hooks on all perimeters. Image on right is an example of j-hook placement on a full 9' x 23.92' unit of LSG (21 per grid). These are made of 1/2" (#4) rebar.



- STEP 5 Infill Cells.** You can determine the ideal infill for your project's need. Here are a couple suggestions:

Infill option 1: Fill cells with mixture of washed screenings and #8 gravel. Overfill 1". Compact. Water entire area and compact again. Top with 2" of sand and apply water to settle area.

Infill option 2: Fill cells with crushed stone dust (1/8" minus). Overfill 2". Water entire area, allow to dry and compact. Repeat this several times as needed to achieve a hard and compact infill. Use compactor to compact area. Water again. Top with 2" coarse river sand.

