

THESE INSTRUCTIONS SERVE AS A GENERAL GUIDE. FOR SPECIFICS, PLEASE CALL CELL-TEK 410-721-4844

## STEP 1: Prepare subgrade.

Excavate, compact, and shape foundation soils to proper depth and grade.

Check out our videos on [www.celltekdirect.com](http://www.celltekdirect.com)

## STEP 2: Place underlayment on the subgrade.

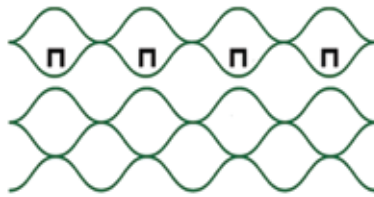
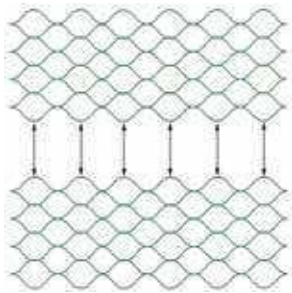
Use a non-woven geotextile fabric for most applications. Vegetated grassy paving would require Triax geogrid instead. The purpose of this underlayment is to keep the infill materials in the geocells; to prevent them from migrating down into the earth over time. Triax geogrid has large holes which allow grass roots to grow deep.

## STEP 3: Install LSG.

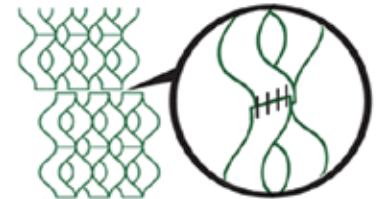
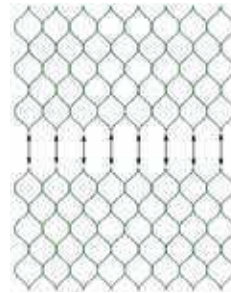
When fully expanded, a single unit of LSG will cover 9' x 23.92'. Be sure to fully expand the cells for best results. Cut the expanded grid to fit the area of your project. Use spikes to temporarily keep the grid expanded until you are ready to fill the cells. Interleaf or overlap edges of adjacent sections, 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. A pneumatic stapler can be used for cell depths of 3" - 6". Or, we offer a hand-held stapler that can be used for the 3" - 4" cell depths.

Our hand-held stapler has an extra wide jaw. Use heavy duty staples.

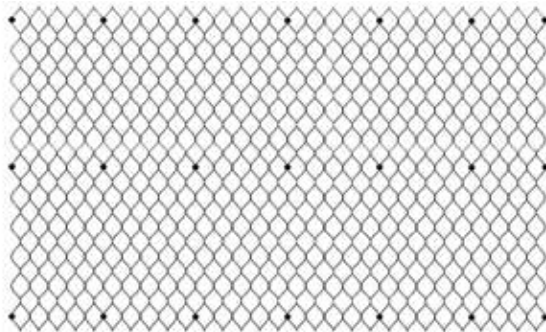
For small jobs, drill holes and use 1/4" zip ties instead of staples.

## STEP 4: **ONLY FOLLOW THIS STEP IF YOU WILL HAVE LOOSE GRAVEL OR GRASSY TOPPING**

(If you are installing pavers, bonded gravel, concrete, or asphalt on top, please skip this step)

### Install 18" rebar J hooks every 4 feet in all directions.

Rebar J hooks keep the grid pinned down to prevent the infill materials from undermining the grid and lifting it up over time. Be sure to install the J hooks on all perimeters. Here 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. In some instances, with a 6" deep cell, a 24" rebar J hook is recommended.



Installation instructions continued on back

# LSG INSTALLATION INSTRUCTIONS CONTINUED

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## STEP 4: Infill Cells.

Cells can be filled with any infill materials such as gravel, crushed gravel, sand, etc. However, if your goal is a permeable pavement, use a clean, washed angular stone to allow water to pass through easily. **IMPORTANT NOTE:** For grassy paving, install a 50% / 50% mix of top soil and clean angular 3/4" stone. Overfill cells by 1". Avoid using limestone as it will affect the pH balance of soil and inhibit grass growth.

## STEP 6: Compact infill materials

Using appropriate equipment, compact the infill materials.

## STEP 7: Install the topping of your choice: Pavers, Gravel, Grass, or Bonded Gravel (SEE 4 BASIC OPTIONS BELOW)

**TIP!**  
Rebar J hooks are useful to keep grid expanded when filling cells!

