

# Cell-Tek Geosynthetics LLC

## GRID EXPANSION

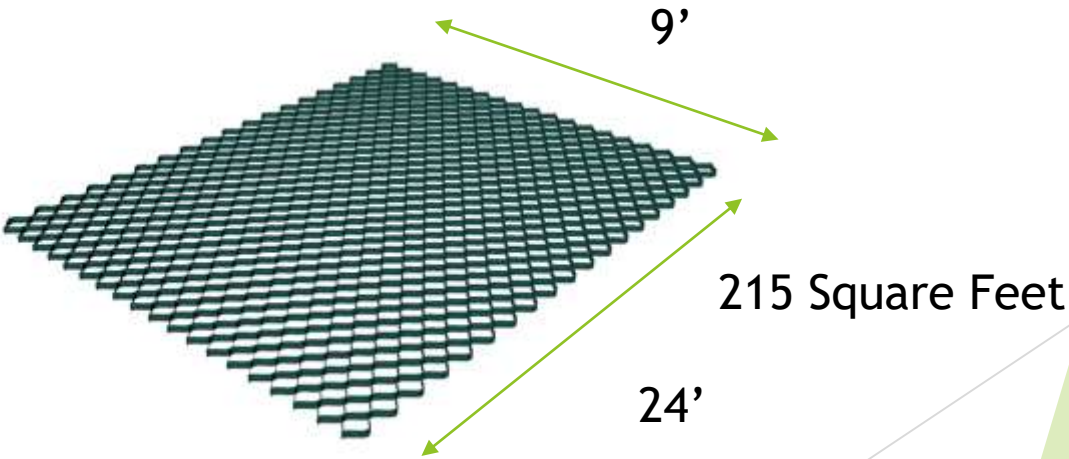
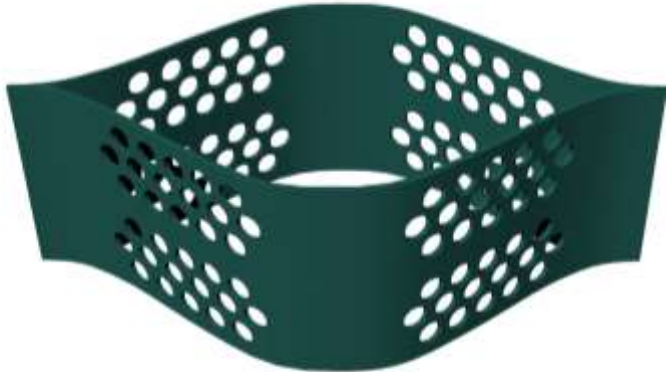
For more information visit [www.celltekdirect.com](http://www.celltekdirect.com) or call us

TEL 888-851-0051 Mon - Fri 8 am to 4 pm EST

After hours emergency number for technical support: 410-320-4688

# LOAD SUPPORT GRID - LSG SERIES

LSG is a series of 3D connected cells that provide load support - a foundation for ANY form of pavement.

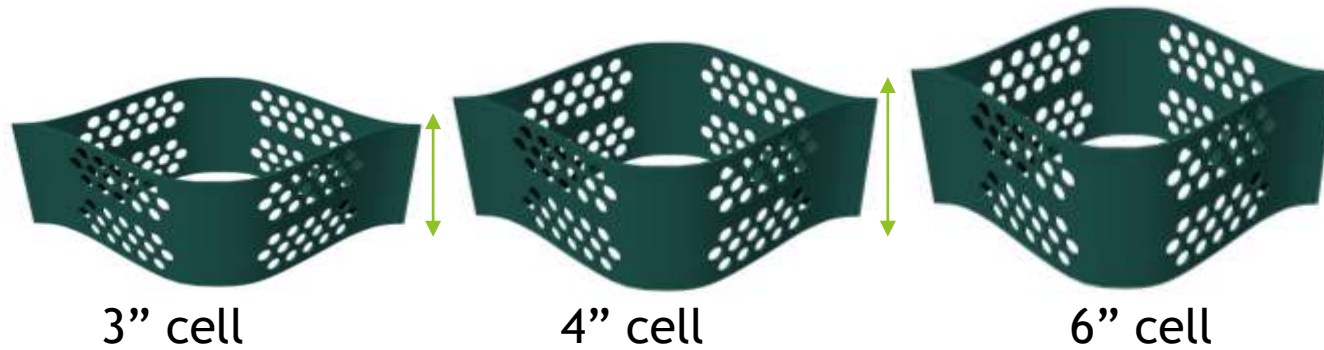


# LOAD SUPPORT GRID - LSG SERIES

It is available in three cell depths:

3" or 4" or 6"

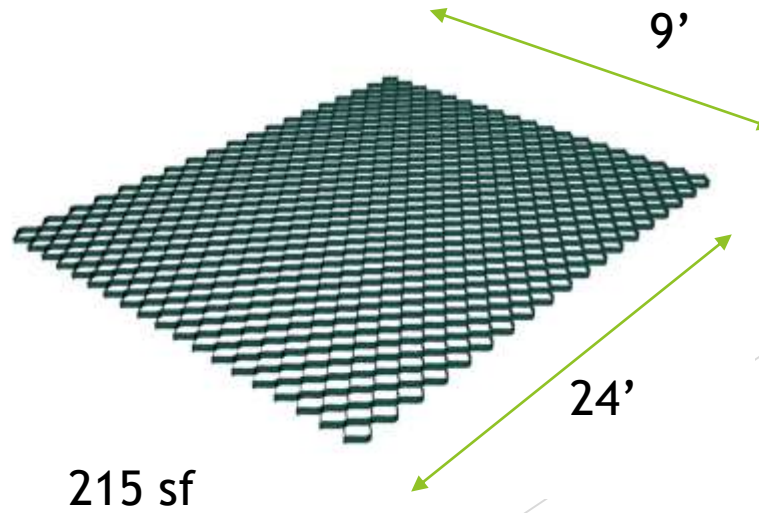
It ships in a collapsed, folded, banded, form. When expanded each unit is 9' x 24' = 215 sf



3" cell

4" cell

6" cell



9'

24'

215 sf

To expand grid to 9' x 24' you will need about 16 pcs. of rebar to aid in the process of full expansion. If you are using rebar J hooks in your installation you can use those instead.



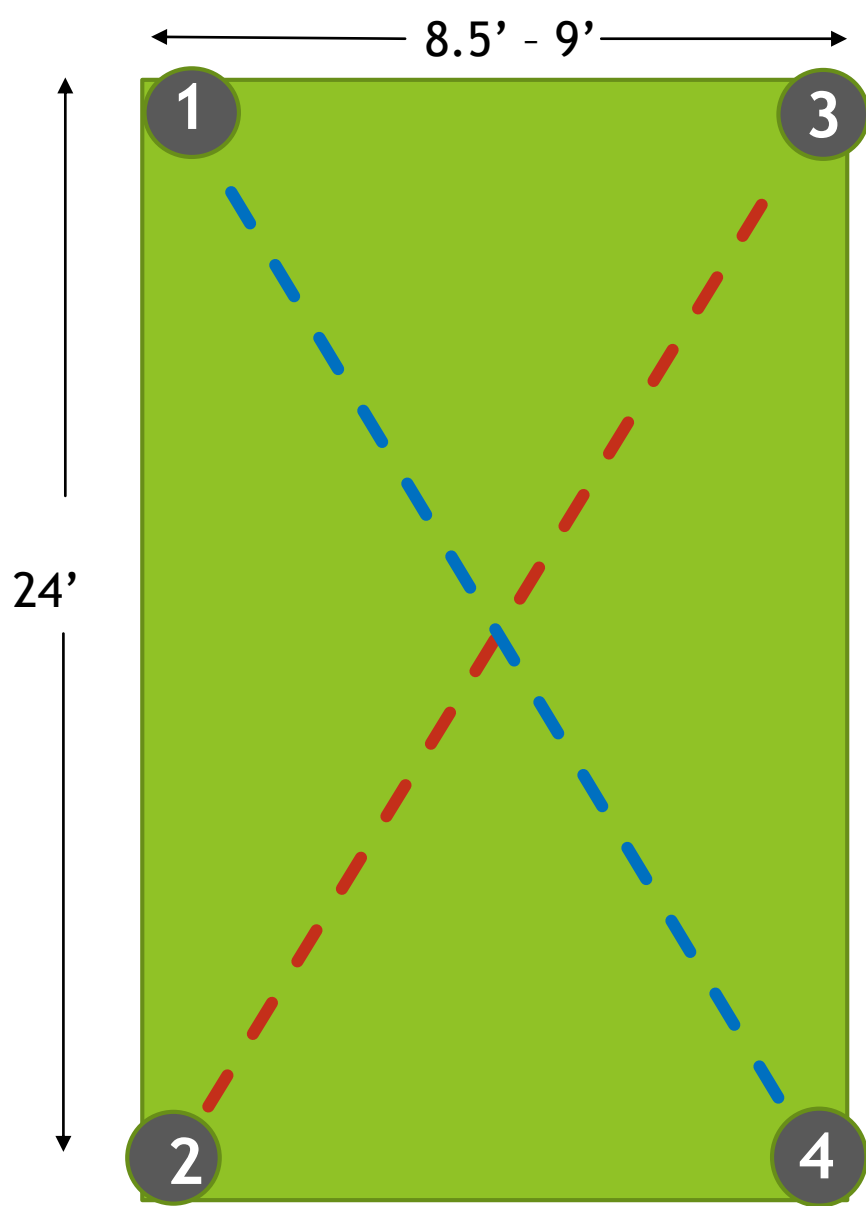


Set 4 corner stakes  
measured out at 24' L  
x 8.5' wide\*.

The grid will expand to  
9' wide but measuring  
to 8.5' wide will give  
you room on each side  
to stretch it to the  
extra 3" to connect to  
an adjacent grid if  
more grids are being  
installed.

$8.5' + 3''$  on left +  $3''$   
on right = 9' wide

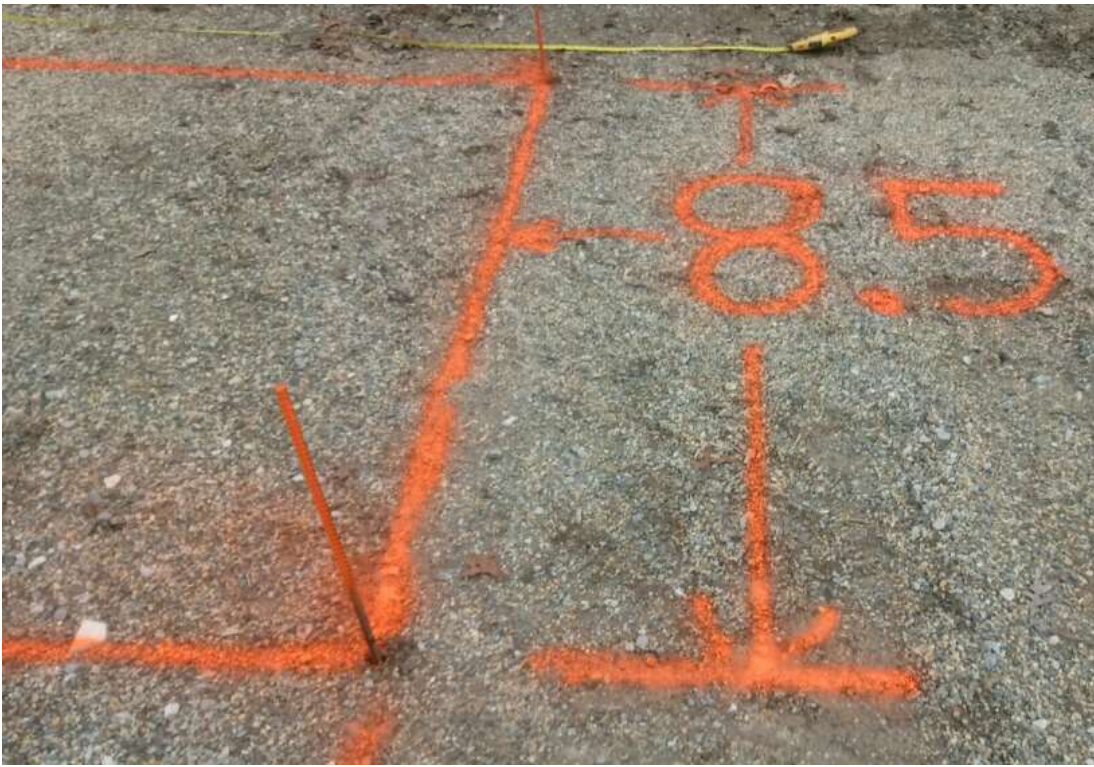
\*If you are only use this  
one piece of grid, and  
want it to be 9' wide,  
then measure to 9'  
wide.



Being precise matters. This is the best method for measuring “to square”:

1. Install stake #1 and #2, 24' apart.
2. Install stake #3 at a point that is 8.5' - 9' away from stake #1.
3. Measure from stake #2 to #3, see red dotted line.
4. Using that measurement, measure from stake #1 to the last corner. See blue dotted line\*.
5. Measure from stake #2 to the last corner (8.5' or 9').
6. Where those two measurements intersect is the place to install stake #4.

\*Tip: If width is 8.5' the diagonal measurement will be 25' 6", if width is 9' the diagonal measurement is 25' 7"



After measuring and placing all four stakes at the corners, lay the grid bundle in the center, around the 12' mark (on 24' long side)



Attach the four corner cells of the grid to the four corner stakes. The grid will resemble an 'hourglass' shape.







Go to center of grid at 12' (on 24' length side) and stake those cells out at the perimeter.

Tip: the grid is 30 cells long. You could count to the 15<sup>th</sup> or 16<sup>th</sup> cell and stake that cell out to the perimeter. That is about the 12' mark.

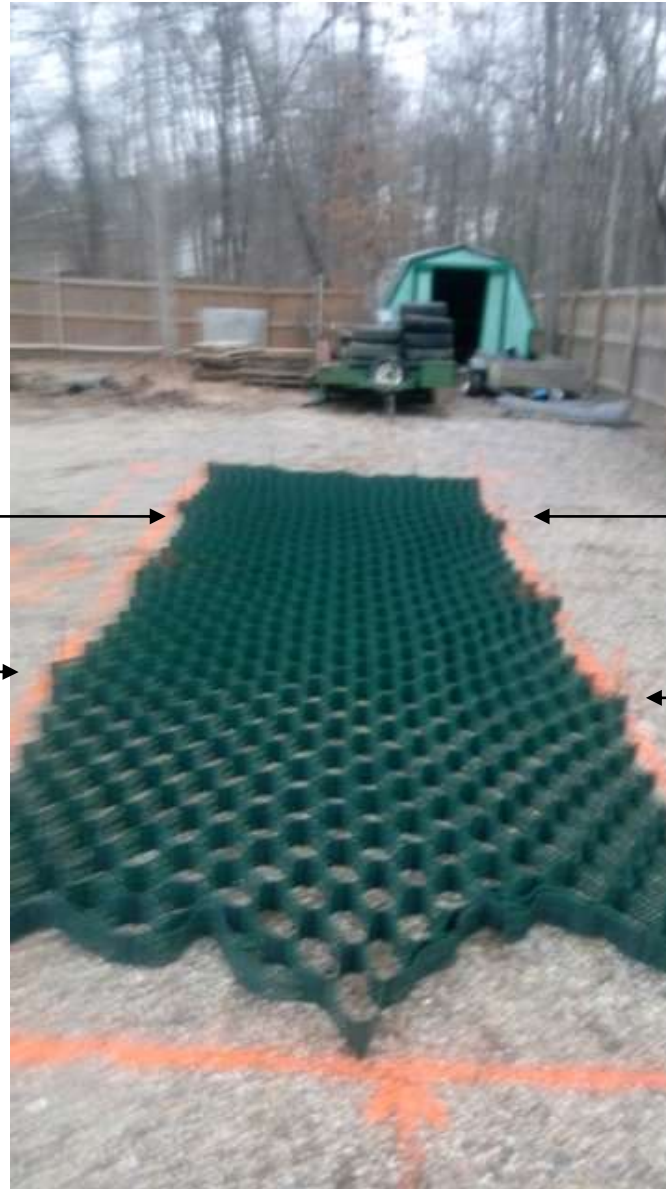


12' at  
halfway  
point

24' side

Continue stretching out the long sides of grid to the perimeter, staking it down along the way. The easiest way to accomplish this is to keep pulling it out in the middle of each remaining section.

For example, along the long side, your first stakes are at the two ends (corners), then you already put a stake in the center at the 12' mark. Next, put a stake at the 6' mark and 18' mark. Continue in this same fashion until grid is expanded.



Apply the same technique to the shorter sides. First start in the middle at about the 5<sup>th</sup> cell (4 - 4.5' to the center)

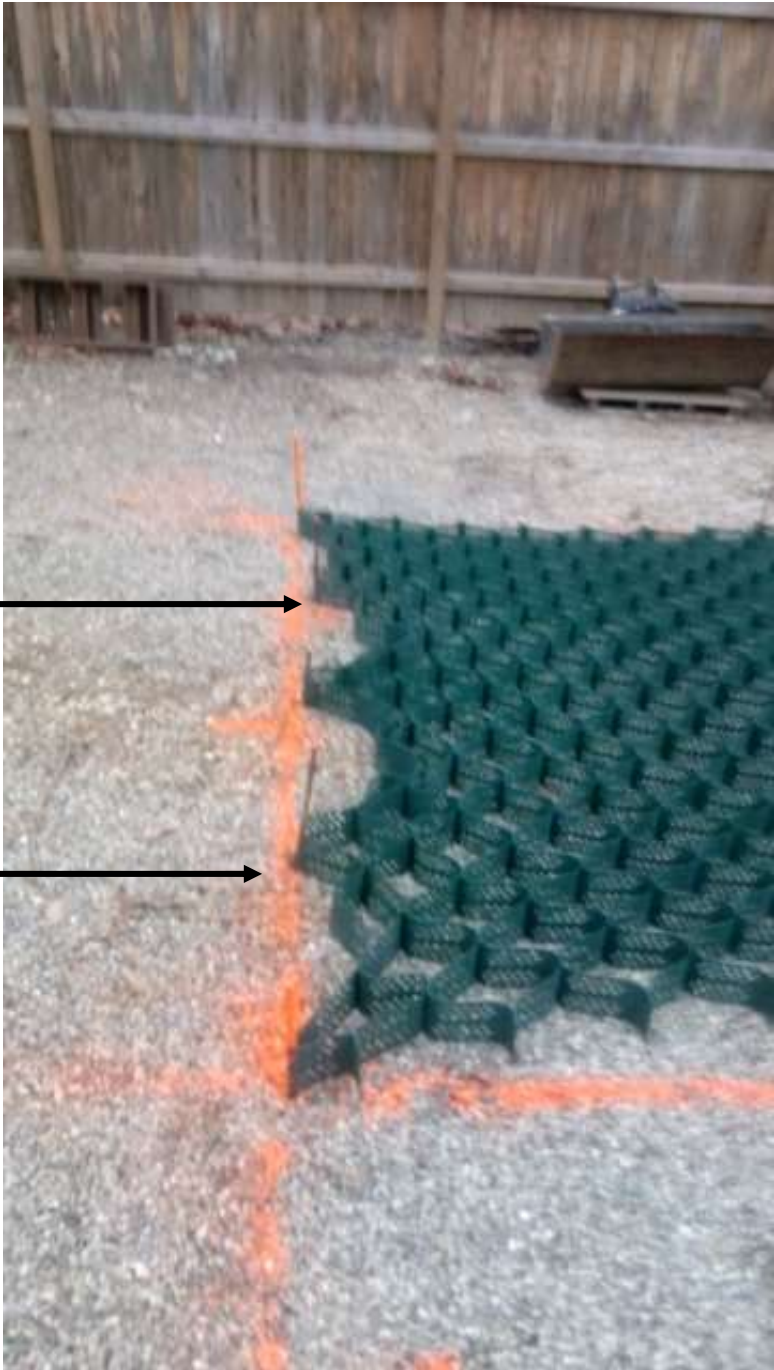


Pull grid and stake at halfway point - about 4 - 4.5'

8.5 - 9' side



Continue stretching and staking as needed on the short sides.





## TIPS:

When the cells are empty it is impossible to walk on them.

If your system requires rebar J hooks to be installed every 4 - 5' and you need access to the center area, use a board as a walking plank (2" x 6' or 2" x 12' board).

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Dump infill in center of grid and spread out, continuing to pull cells outward toward perimeter as needed.

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Once cells are filled you can walk on it or drive equipment on it. Once cells are filled, you can remove stakes and use them to expand the next grid.