

**Installation** (See website for complete detailed instructions: [www.celltekdirect.com](http://www.celltekdirect.com))

<p><b>Excavate</b></p>  <p>1</p>	<p><b>Install Geotextile Fabric</b></p>  <p>2</p>	<p><b>Install Expansion Spikes</b></p>  <p>3</p>
<p><b>Expand LSG Stabilizer Grid</b></p>  <p>4</p>	<p><b>Infill Cells</b></p>  <p>5</p>	<p><b>Completely Fill Cells</b></p>  <p>6</p>
<p><b>Overfill Cells &amp; Tamp</b></p>  <p>7</p>	<p><b>Install Surface Layer</b></p>  <p>8</p>	<p><b>Other Surface Options</b> Gravel-Lok, Gravel, Grass, Asphalt, Concrete, Brick, Bluestone</p> <p>✓ Tip: J-Hooks recommended if using washed aggregates.</p> <p>✓ Tip: Place spikes at corners of grid dimensions.</p>

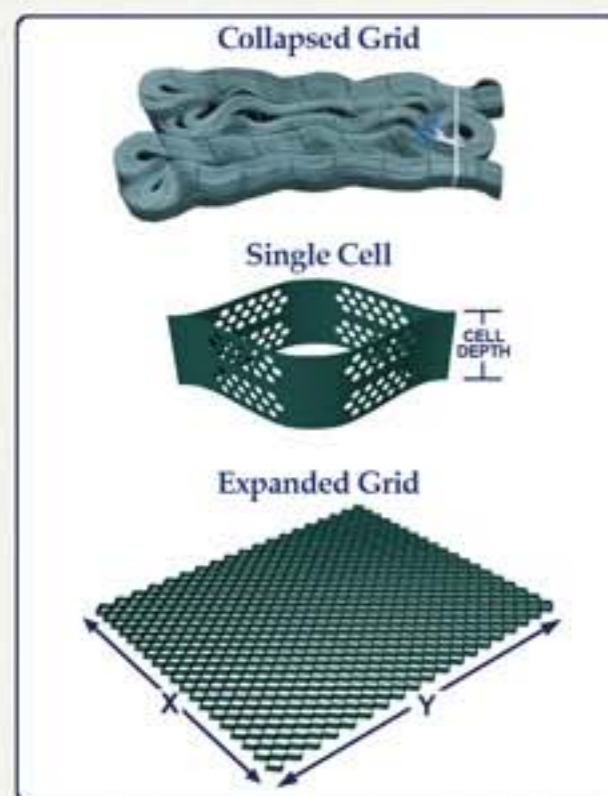
# LSG SERIES™

## LOAD SUPPORT GRID

LSG SERIES STABILIZER GRID provides superior support to your pavement system. The system confines materials and prevents lateral movement away from the applied load. The stabilizer grid acts as a large mat, by spreading the load over an extended area while increasing the load bearing capacity of the pavement surface.



## CELL-TEK Geosynthetics LOAD SUPPORT



MANUFACTURED CELL DEPTHS		EXPANDED UNIT DIMENSIONS	
2"	50mm	LSG-2	13' x 13' (3.96 x 3.96 m), 170 sf
3"	75mm	LSG-3	13' x 13' (3.96 x 3.96 m), 170 sf
4"	100mm	LSG-4	9' x 24' (2.7 m x 7.3 m), 215 sf
6"	150mm	LSG-6	9' x 24' (2.7 m x 7.3 m), 215 sf

PROPERTIES	TEST METHOD	TEST VALUE
Material Composition	ASTM D1505	Polymer, Recycled HDPE Density: 0.965g/cm <sup>3</sup>
Nominal Sheet Thickness	ASTM D 5199	1.78mm
Environmental Stress Cracking	ASTM D1693	3500 Hrs.
Stabilizer	ASTM E 682	Hindered amine light stabilizer (HALS) 1.0% by weight
Short Term Seam Peel Strength		2" (50mm) 670N
		3" (75mm) 1030N
		4" (100mm) 1390N
		6" (150mm) 2090N



APPLICATIONS INCLUDE:

**Paver Base Support, Permeable Paving, Access Roads**  
**Fire Access Lanes, Boat Ramps, RV Parking**  
**Golf Cart Pathways, Overflow Parking**

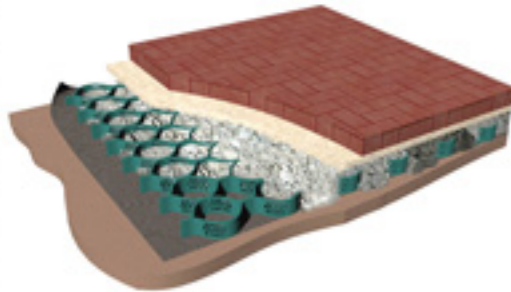
**Reduce Stormwater Runoff • Reduce Base Thickness**  
**Reduce Subgrade Stress • Reduce Installation Costs**  
**Reduce Maintenance • Increase Strength**  
**Increase Load Support • Increase Pavement Life**  
**Increase Performance**

# SYSTEMS

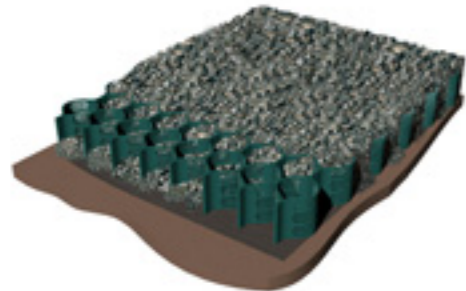
## GRASS / TURF PAVING



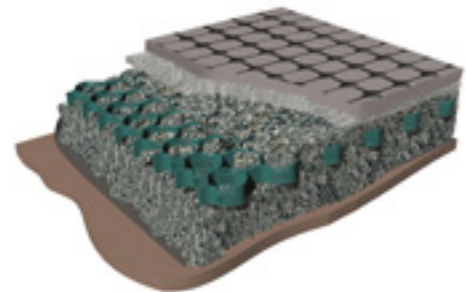
## INTERLOCKING PAVERS



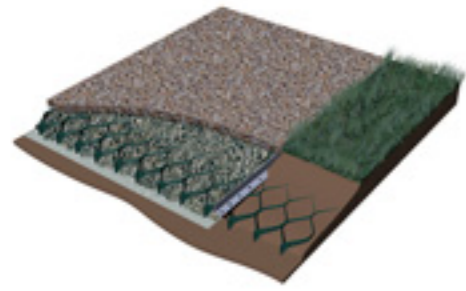
## GRAVEL PAVING



## PERMEABLE PAVERS



## GRAVEL-LOK



PRODUCTS	CELL DEPTH	DIMENSIONS	AREA/ UNIT	UNITS/ PALLET	SYSTEM RECOMMENDATIONS	APPLICATIONS
<b>LSG-2™</b>	2"	13' x 13'	170 sf	36	PAVERS / PERMEABLE PAVERS / GRAVEL / GRAVEL-LOK	Patios, Trails & Walkways
<b>LSG-3™</b>	3"	13' x 13'	170 sf	24	PAVERS / GRAVEL / PERMEABLE PAVERS / GRAVEL-LOK <i>(vehicular traffic)</i>	Driveways, Parking Areas
<b>LSG-4™</b>	4"	9' x 24'	215 sf	18	PAVERS / GRAVEL / GRASS (TURF) PAVING / GRAVEL-LOK	Driveways, Access Roads, Overflow Parking
<b>LSG-6™</b>	6"	9' x 24'	215 sf	12	PAVERS / GRAVEL / GRASS (TURF) PAVING / GRAVEL-LOK	Ports, Boat Ramps, Access Roads, Driveways, Commercial Applications

## INFILL OPTIONS

AGGREGATES: SAND, GRAVEL, ROCK, STONE  
TOPSOIL & ON-SITE SOILS, CONCRETE  
Infill materials can be combined to meet project specifications.

## GREEN-TEK VEGETATED FILL

Creating a vegetated surface layer while maintaining structural base support requires a mixture of aggregates and topsoil. Aggregates have a higher structural coefficient than sand and soil, so a larger percentage of aggregates will create a stronger base.

- ✓ Recommended Infill for Vegetated Systems  
50% Washed Aggregates + 50% Topsoil

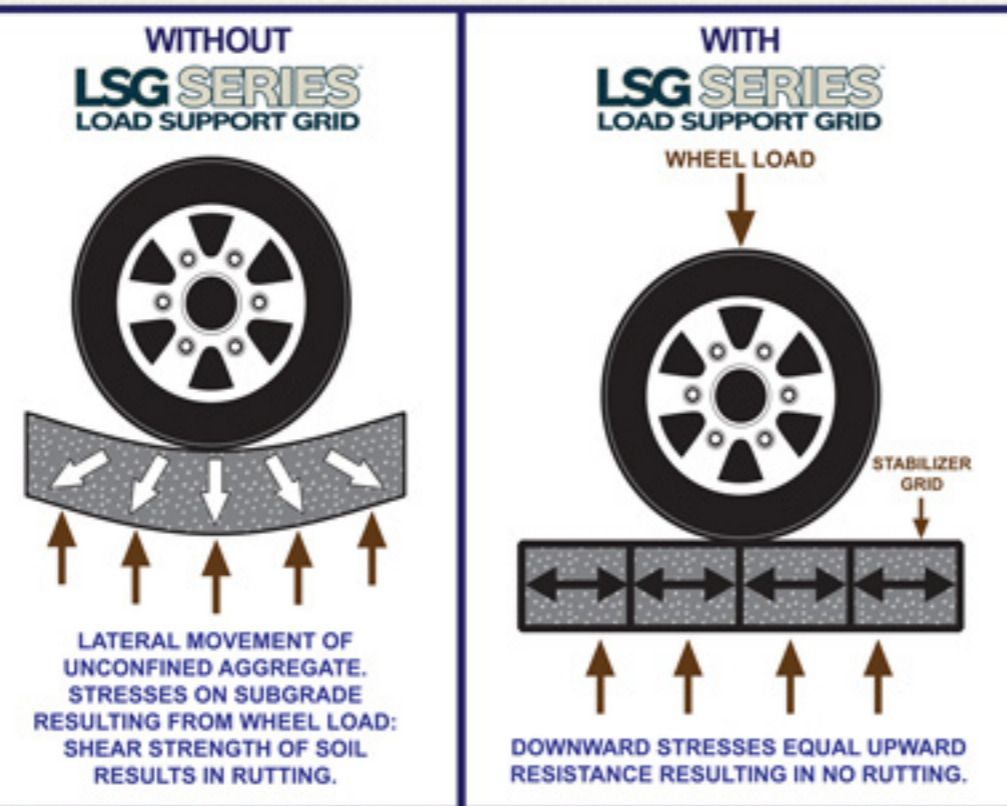
# CELL-TEK™ LSG SERIES™

Load Distribution of Weak Soils • Base Stabilization for Various Pavements  
Surface Stabilization for Unpaved Surfaces • Provides Load Distribution  
Prevents Lateral Movement • Increases Structural Load Support

## LOAD SUPPORT DESCRIPTION

PRODUCT	LSG-2™	LSG-3™	LSG-4™	LSG-6™
TYPE OF TRAFFIC	Pedestrian	Cars & Pickup Trucks	Maintenance Trucks	Heavy Trucks & Fire Access
LOAD DETAILS	5000 lb. (2.5 Tonne)	8000 lb. Axle Loads: 18kN	H10 Loading 40,000 lb. Axle Loads: 75kN	H20 Loading 80,000 lb. Axle Loads: 145kN
SUBGRADE CBR	>3% CBR <i>Normal Hard Surface</i>	>3% CBR <i>Normal Hard Surface</i>	>3% CBR <i>Normal Hard Surface</i>	>3% CBR <i>Normal Hard Surface</i>
SURFACE WEAR LAYER (overfill)	2"	2"	2"	2"
TOTAL SYSTEM THICKNESS	4"	5"	6"	8"
GEOTEXTILE (Filtration & Separation)	YES Nonwoven	YES Nonwoven	YES Nonwoven	YES Nonwoven
EQUIVALENCY TO UNCONFINED GRAVEL	4" - 5"	9" - 10"	16" - 20"	24" - 30"
WATER STORAGE <i>#57 Stone Equivalent</i>	1.6"	2"	2.4"	3.2"

For CBR <3% additional base support may be required or increase to next cell depth.  
Example: If the design calls for a 3" cell depth and the CBR is less than 3%, use a 4" cell depth.





BUILDING MATERIALS

Providing Architects and Builders with Superior Paving, Decking and Pedestal Products.

Commercial | Luxury Residential | Municipal



## Extended Team

We can also provide technical consultation and installation training for projects that involve Buzon Pedestals. Please contact us to discuss your particular needs. HDG Building Materials also has a network of experienced installers in many major cities. Please contact us for introductions or referrals.

## Sales Representatives

Sales representatives for HDG Building Materials are located in the Pacific Northwest, Southern California, and Iowa.

Outside of those regions? No problem, we are happy to serve. Please contact us at 503.360.9551



HDG Building Materials is an authorized dealer for Cell-Tek and Gravel-Lok products. HDG provides architectural sales and support in North America

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