

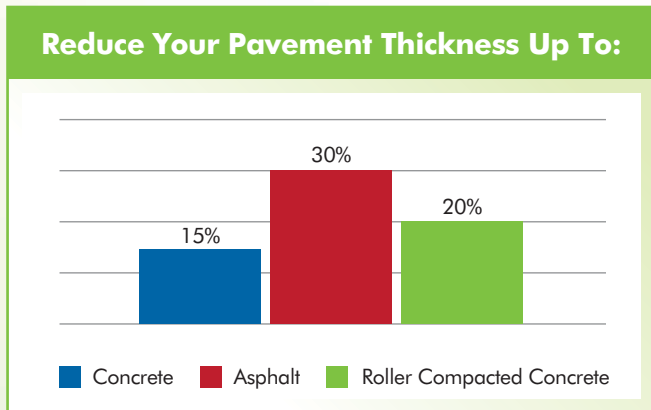
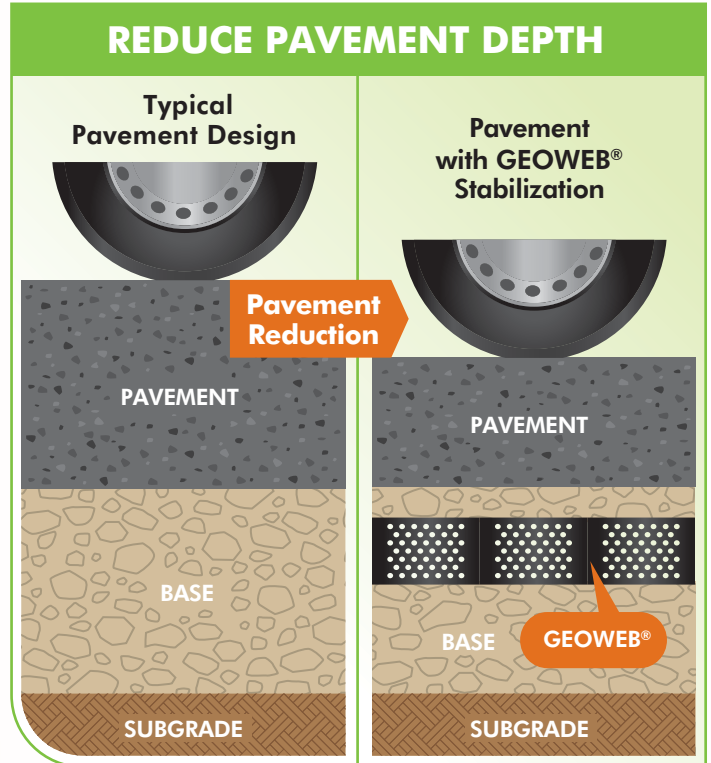


# GEOWEB®

## Reduce pavement depth. Reduce costs.

For 30+ years, engineers have employed the **GEOWEB® Cellular Confinement System** to reduce base depths of pavements by improving the structural strength and base layer performance. The GEOWEB® structure creates a stiffened base layer, and the resulting increase in base strength can be used to **reduce the pavement depth design**.

For a **FREE analysis of your cost savings**, complete the short **Request for Project Evaluation Form** located at [www.prestogeo.com/load\\_support\\_system](http://www.prestogeo.com/load_support_system).



**Example: Asphalt Cross-Section Calculations**

$$a_2d_2 + a_1d_1 = SN = a_1d_1 + (a_2d_2 \times GW_{IF})$$

Pavement reduction calculations based on the following formulas and research:

- Asphalt
- GEOWEB®
- Base
- Subgrade

**SN** Structural Number  
**a** = Structural Layer Coefficient **d** = Depth

**GW<sub>IF</sub>** = GEOWEB® Improvement Factor

Diagram illustrating the cross-sections for Typical Pavement Design and Pavement with GEOWEB® Stabilization. The typical design shows a thick asphalt layer (d<sub>1</sub>) over a base layer (d<sub>2</sub>). The stabilized design shows a thinner asphalt layer (d<sub>1</sub>) over a base layer (d<sub>2</sub>) with a GEOWEB® layer. A callout indicates '\$\$ PAVEMENT SAVINGS \$\$'.

**References:**

- American Association of State Highway and Transportation Officials (AASHTO), "Guide for the Design of Pavement Structures," Washington, D.C., 1993.
- "Structural Design of Roller Compacted Concrete for Industrial Pavements", Portland Cement Associations, 1987.
- "Laboratory Evaluation of Geocell Reinforced Gravel Subbase Over Poor Subgrades, Geosynthetics International, 2013, 20, No. 2, Tanyu, Aydilek, Lau, Edil, Benson