



Advanced Geocell Soil Stabilization Solution

Any type of Soil. Any Environment. Any Load.



Load Support

- › Reduce aggregates layer by **30% - 50%**
- › Increase roads long term performance
- › More traffic for longer time
- › Use locally available infill
- › Cost effective and long project lifespan



Slope & Channel Protection

- › Stabilize unstable and steep slopes
- › Low cost
- › Fast, all weather installation
- › High resistance to UV, oxidation, water and extreme temperatures
- › Optimized drainage system



Earth Retention Walls

- › Drainage and storm water management
- › Long-term stiffness and strength
- › Use local soft soils
- › Highly resistant to seismic activity
- › Green and aesthetic solution
- › Resistant to extreme temperatures and water



Landfills & Reservoirs

- › Fast and easy installation
- › Withstands seismic activity
- › Reduces logistics, amount of concrete and labor
- › Reduces the amount of concrete and associated environmental impacts



Different geocells may appear similar – but it's their material which will determine their performance

There are 2 main types of geocells:

1

Soft Cells - Short Term:

- › **Early** generation geocells
- › **HDPE** (High-Density Polyethylene)
- › Flexible
- › Suitable for **light load**
- › **Short-term** applications

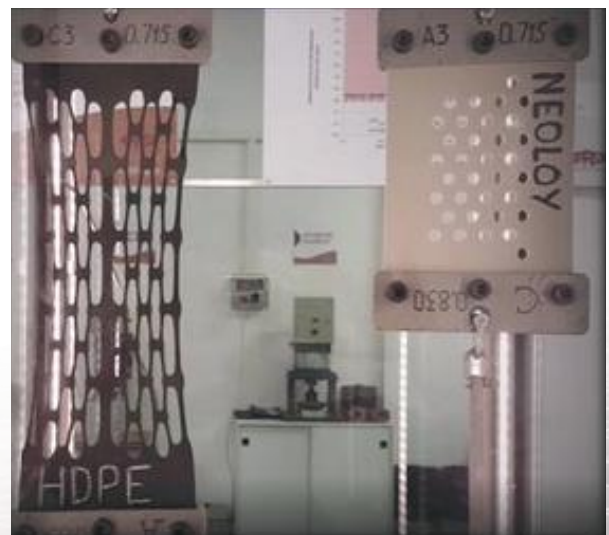


Before loading

2

Tough Cells® - Long Term:

- › **New** generation geocells
- › Novel-Polymeric Alloys (NPA), such as **Neoloy®**.
- › **Stiff and strong**
- › Designed for **heavy loads**
- › **Long term** applications



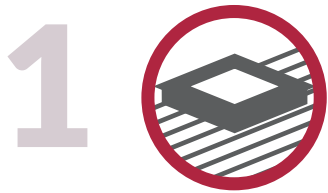
After loading

SIM Test proves that only Neoloy Geocells guarantee 75 years performance

*Test (D-6992)

10 Quick Facts about Neoloy® Geocells

Neoloy is a strong and stiff nano-polymer designed to sustain static and dynamic loading over time, without any deformations.



Reduces road subgrade layers by up to 70%



Designed to sustain heavy loads, up to 1000 tons



Low Permanent Deformation (Creep) - elongation max <3% at the end of the design life



Reduces asphalt layer by up to 35%.



Cell tensile strength - maintains geocell geometry under loading

10 Quick Facts about Neoloy[®] Geocells

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Reduces maintenance cycles by a factor of 7.

7



Adapted by leading engineering such as WSP and ARUP

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Fast Installation in any environment.

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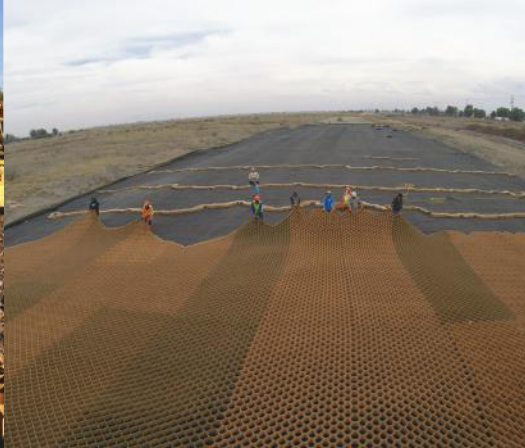


Validated in more than 55 academic research papers

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Elastic Stiffness (Dynamic modulus)
- maintains stiffness under dynamic loading



PRS Geo-Technologies

Join the Geocell Revolution

1000's of projects

75 counties

25 years

