

# Geocells for load support and slope protection

Cellular confinement of granular fill increases the stiffness and load spreading of a thin layer.

## CAN BE CONSIDERED WHERE

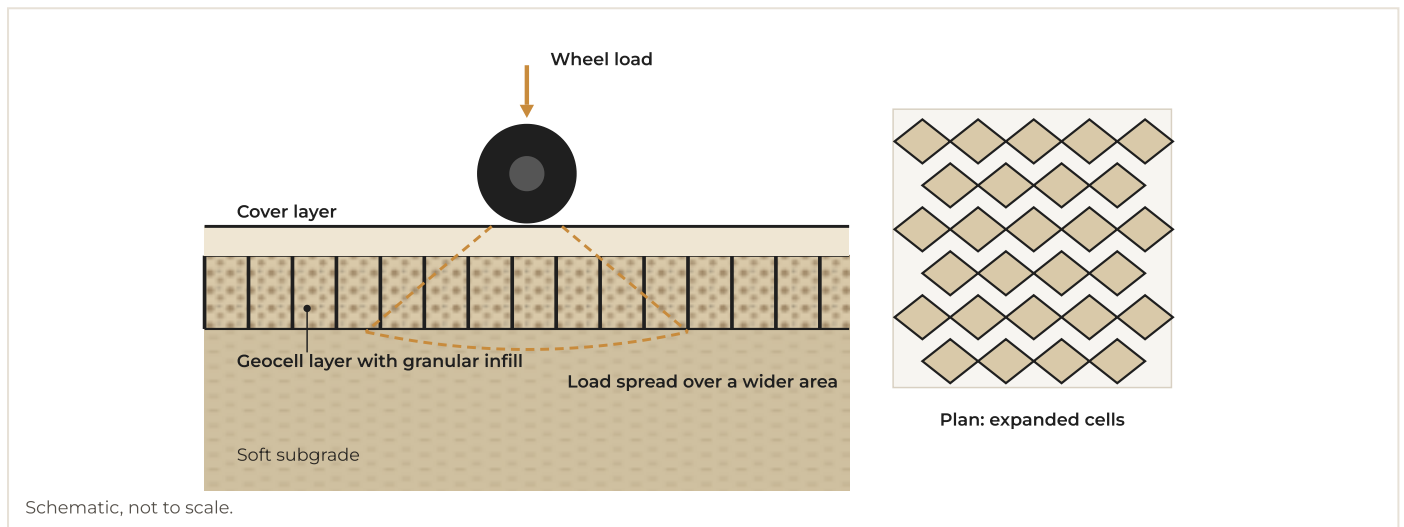
- Access roads, working platforms and laydown areas on soft subgrades.
- Erosion protection on slopes and channels.
- Gravity retaining walls built from stacked cells.

## LIMITATIONS

- Geocells do not treat deep soft layers, so long-term settlement of the soils below remains.
- Performance depends on correct infill and compaction.
- Design is product-specific.

## HOW IT WORKS

Collapsed panels are stretched open on the prepared subgrade, connected and anchored, then filled with compacted granular material.



## DESIGN INPUTS

- Subgrade strength (e.g. CBR).
- Traffic or equipment loads.
- Geocell product properties.
- Infill specification.
- Layer thickness and cover.

## EXECUTION CONTROLS

- Subgrade preparation and levels.
- Panel expansion, connection and anchoring.
- Infill placement and compaction.
- Cover thickness.
- Installation records.

## VERIFICATION AND ACCEPTANCE

### Design intent: What is required

Bearing or deflection criteria agreed with the consultant.

### Production control: What was done

Records of installation, infill and compaction.

### Acceptance: What was proven

Plate load tests, infill density tests and level checks.

## DELIVERABLES

Method statement · Layout drawings · Product data and certificates · Installation records · Test reports