

Geogrid reinforcement for platforms, roads and slopes

Polymer grids interlock with compacted fill to reinforce platforms, roads, slopes and embankments.

CAN BE CONSIDERED WHERE

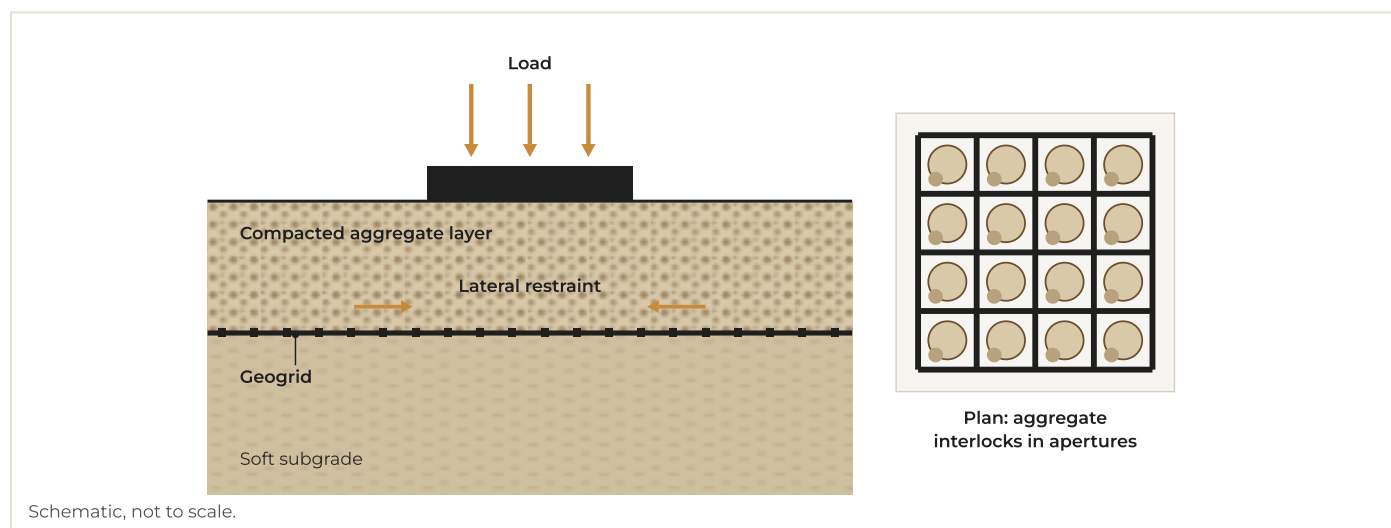
- Base and subgrade stabilisation for roads, platforms and laydown areas.
- Working platforms for cranes and piling rigs.
- Reinforced soil slopes and walls.
- Basal reinforcement of embankments over soft ground.

LIMITATIONS

- Performance depends on the product, the match between aperture size and aggregate, and correct installation.
- Geogrid does not remove settlement of deep soft layers.
- Design follows product data and recognised design methods.

HOW IT WORKS

The geogrid is laid on the prepared surface or between fill layers. As the fill is compacted, aggregate particles lock into the apertures.



DESIGN INPUTS

- Subgrade strength.
- Loads and design life.
- Geogrid type (uniaxial for walls and slopes, biaxial or multiaxial for base stabilisation) and its properties.
- Fill specification.
- Design method and standard.

EXECUTION CONTROLS

- Orientation, overlaps and anchorage of the geogrid.
- Fill lift thickness and compaction.
- No trafficking directly on the geogrid.
- Installation records.

VERIFICATION AND ACCEPTANCE

Design intent: What is required

Bearing, stiffness or stability criteria agreed with the consultant.

Production control: What was done

Records of installation, fill and compaction.

Acceptance: What was proven

Density tests, plate load tests and level checks.

DELIVERABLES

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