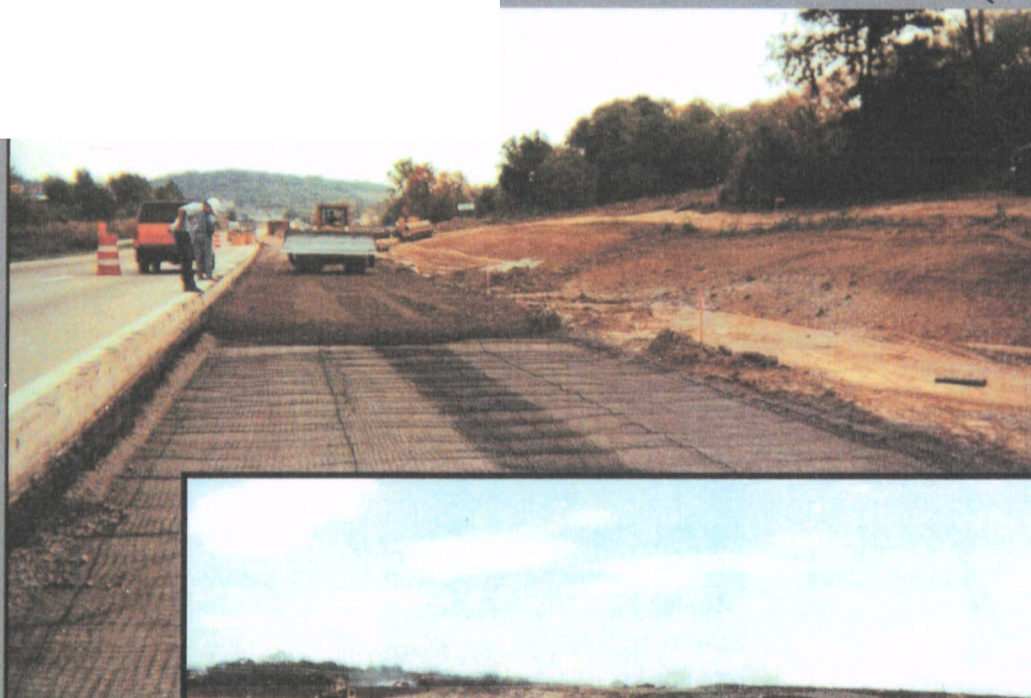


**Amerasia**

**POLYESTER GEOGRID**  
**Model : GS 5050**

# Geogrids for Soft Soil Stabilization & Base Reinforcement



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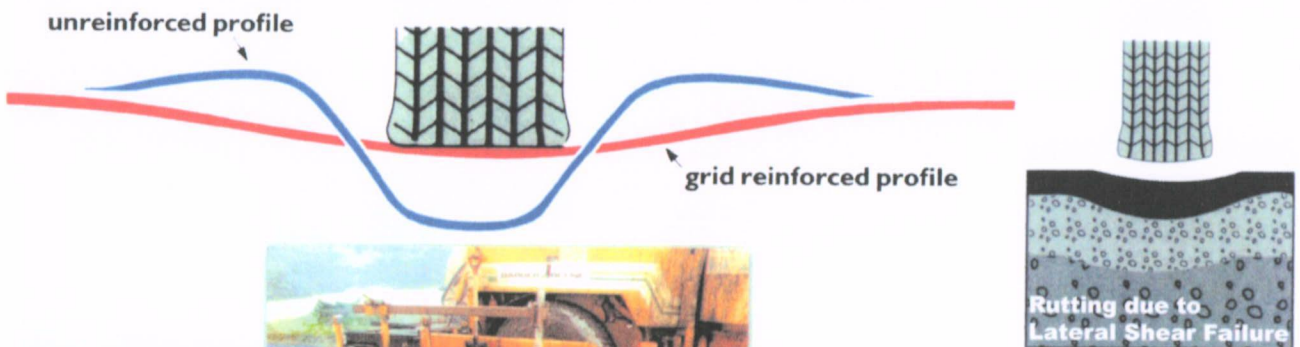
# Soils in Construction

Amerasia

Polyester Geogrids work with the soil to reinforce the area for future construction.



Soils are an essential material in all types of construction and must be treated as an engineered material. Project engineers are often forced to develop solutions and give proper attention to soils when problematic subgrade conditions are encountered. However, soils should also receive full attention when they are used as fill material in applications like paved and unpaved roads (base reinforcement) and construction over weak soils (soft soil stabilization).

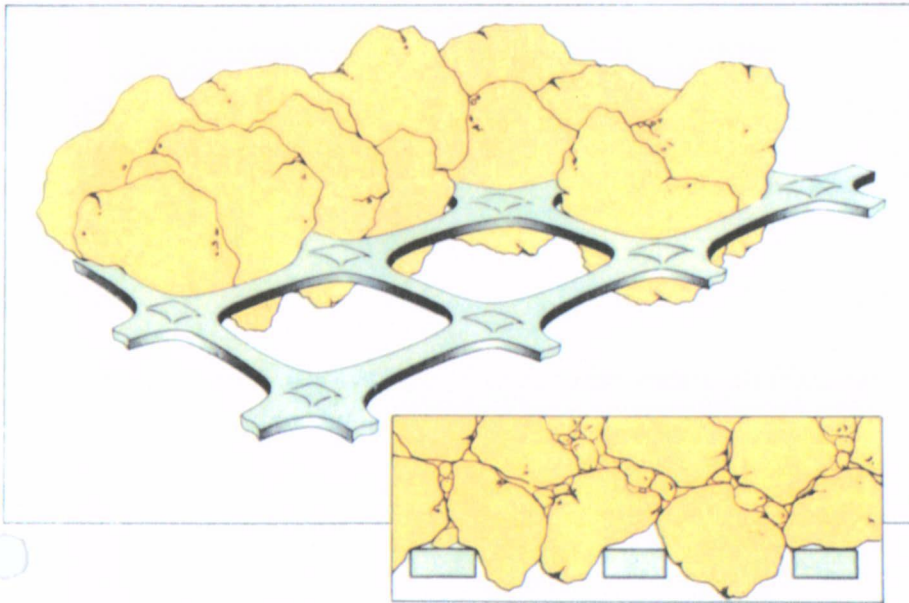


The proper engineering evaluation should occur not only when utilizing an expensive, high quality granular fill with a carefully controlled gradation, moisture content and great structural characteristics, but also when utilizing a readily available poor quality borrow of fine-grained clay. For a project to be success, soils require the full attention of project engineers.



# Reinforcement of Unbound Aggregate

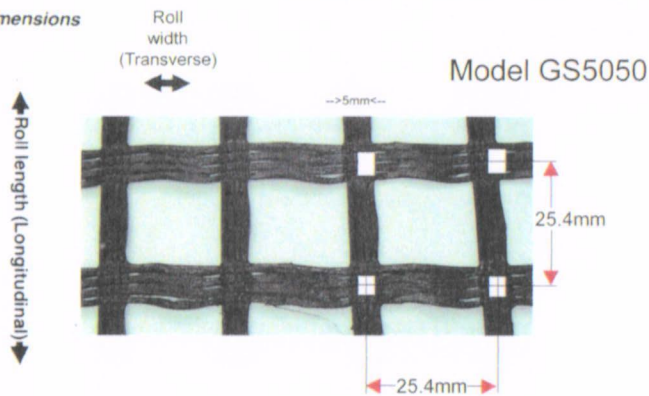
**Amerasia**



Mechanical interlock creates a flexurally stiff platform which distributes load evenly, reduces rutting and minimises differential settlement.

Interlock between the grid and a well-graded aggregate prevents lateral movement of particles at the base of the fill layer. This in turn prevents upward movement of subgrade fines by pumping.

Typical Dimensions



## Amerasia Geogrid

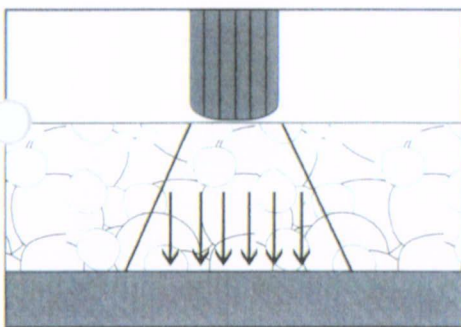
Polymer: polyester

Quality Control Strength

Transverse: 50kN/m

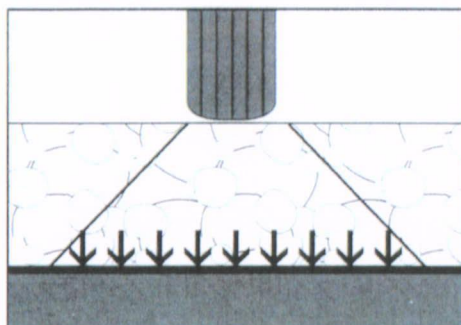
longitudinal: 50kN/m

Roll dimensions: 2m(W) x 50m(L)



Unreinforced

## UNPAVED ROADS



Reinforced

## Amerasia Geogrid

distribute applied loads over a greater area reducing vertical pressure on the subgrade. This allows for a longer design life compared with a similar unreinforced section.

If designing for a specific lifetime, this allows for significant reductions in base course thickness.

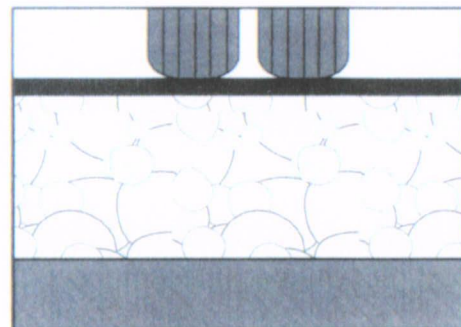
### Material

Amerasia

allow up to a 30% reduction of base course material thickness in flexible pavement systems.

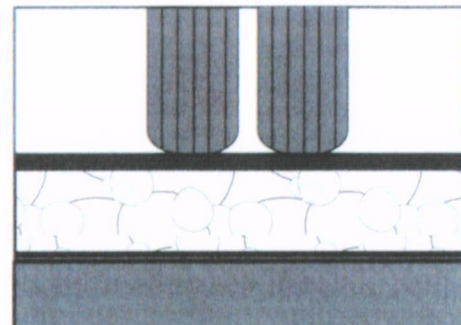
### Savings

geogrids



Unreinforced

## PAVED ROADS



Reinforced



# Product Description and Test Data

Amerasia



## Amerasia Geogrid Offers:

- HIGH TENSILE STRENGTH
- HIGH JUNCTION STRENGTH
- HIGH TENSILE MODULUS
- HIGH RESISTANCE

## Typical Applications:-

- Soft soil stabilization
- Embankment over weak soil
- Haul Road
- Base re-inforcement
- Working platforms

**Amerasia Geo-grid** is made of single layer of high strength polyester mesh.

**Color** : Black

**Roll size:** 2m(W) x 50m(L)

## Test Method:

BS EN ISO 10319:2003

Elongation

MD x TD (Transverse)

MD x TD (Longitudinal)

## Property Structure:

Polyester Grid

<10%

50kN/m

50kN/m

## Reflection Cracking

When overlaying pavements with existing cracks or joints, Amerasia grid reinforcement located at the base of the overlay will prevent the propagation of reflection cracks, greatly increasing the life of the overlay.

Ideally suited for overlaying of:

- Cracked pavements
- jointed concrete pavements
- lean mix concrete road bases

