



Wallbarn Geogrids

Wallbarn offers a range of flexible, high strength geogrids for use in soil reinforcement.



These woven geogrids are manufactured from polyester yarns covered in a protective polymer coating. They are installed to ensure that the construction of steep embankments, retaining walls, load bearing layers or projects on soft ground are safe and secure, with no risk of subsidence.

On horizontal applications the geogrid can be laid as a holding agent in between two courses of aggregate or soil and will both prevent subsidence of the load bearing course, but also transfer the weight over a greater area. This means far heavier loads can be trafficked onto the upper surface since the weight will be distributed laterally.



Geogrids are also ideal for vertical installations, where there is a considerable risk of landslips, rockfalls or top soil slumping off embankments.

The geogrid will hold the soil together, and also act as a binding agent for plant growth, whose roots will not damage the fabric of the grid in any way.



Although lightweight and easy to handle and to install, they provide high tensile strength at low elongation. Their make-up means that the grid is resistant to soil micro-organisms, subterranean chemicals, UV radiation and mechanical damage. They can be used in conjunction with many other materials and layers without issue and have been proven to be safe when installed even in landfills and other areas containing contamination.

Woven geogrids are ideal for the following applications:

- Intermediate layers in road and rail construction
- Access and temporary roads
- Retaining walls and very steep earthworks
- Hillside and slope stabilisation
- Landfills
- Reservoirs
- Noise reduction barriers



Wallbarn Geogrids for road construction

A bitumen coated geogrid is also available for road construction. The mesh grid is coated with a bitumen emulsion, which provides good adhesion to asphalt.

The geogrid will reinforce the asphalt courses; preventing cracking, reinforcing joints and providing strong overlays to old road surfaces.



Lightweight and easy to use, the geogrid reinforces the hardcore base and the concrete and asphalt layers. It is highly flexible and temperature resistant, and can be supplied in many different grades and strengths. This means the elongation characteristics can be matched to the strength of the asphalt.

Since asphalt is sensitive to relatively low forces of expansion and contraction, the geogrid will increase the flexibility of the surface and also increase the tensile strength considerably by carrying a large proportion of stress over a larger area.

By using bitumen coated geogrids specifiers can be assured that frequency of maintenance will be considerably reduced and the life span of the road will be increased considerably.

