

StrataBase



StrataBase
Geogrid base reinforcement



StrataBase is an extruded, polypropylene, rigid biaxial geogrid. It functions as structural reinforcement within paved and unpaved road sections, and at the base of embankments on weak soils, through superior junction strength and interlocking aperture stability.

Since decades, biaxial geogrids have been used for strengthening paved and unpaved roads, as well as, for load support for earth structures and fills on weak soils.

StrataBase reinforces the soil or granular material within which it is placed, through unique confinement characteristics and by virtue of its elements of high-tensile strength, in two orthogonal directions.

These features improve the load-carrying characteristics of structural layers of a flexible pavement within which StrataBase is placed. By its attribute to spread imposed load over a larger area, a weak subgrade, below a pavement section can be seen to take up heavier forces without distress. The thickness of the granular courses of the pavement can be substantially reduced to incur economies. StrataBase in pavement sections also extends maintenance cycles and life of the pavement.

When placed between the base of an earth embankment, and over weak foundation, StrataBase can sustain forces of large magnitudes from the embankment with its high tenacity and modulus through “catenary” action.

Applications

- ▶ Road and railway embankments over weak soils as an option to expensive and time-consuming soil-stabilisation measures, including soil replacement
- ▶ Highways with challenging maintenance cycles are essential, with associated low operational costs
- ▶ Airport runways and aprons
- ▶ Parking lots in industrial and commercial facilities, including truck and tanker terminals
- ▶ Construction laydown areas and container terminals, particularly those on reclaimed marsh lands
- ▶ Stabilisation of haul roads at mines, oil fields and construction sites
- ▶ Basal reinforcement for industrialist tanks in petrochemical oil terminals, marsh tanks etc



Ballast & sub ballast stabilization



Railway track bed stabilization



Subgrade and foundation improvement



Stabilization of haul roads



About us



Established
2004



Manufacturing Facility
StrataGrid™ geogrid, StrataWeb®
geocells at Daman, India



Joint Venture
Strata Systems Inc. USA
(Division of Glen Raven Group)



Project Track Record
Timely & infallible installation



Global Presence
USA, Brazil & Ireland



Certification
CE TÜV Q

Strata India offers a comprehensive range of high-quality geosynthetic and geotechnical solutions to India's civil engineering and construction industry.

Strata India provides turnkey solutions for various applications like reinforced soil structures, slope protection and stabilization, erosion control, precast arch bridges, foundation improvement for structures and embankments, steep slope embankments, strengthening of paved/ unpaved roads, storage/ container yards etc.



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