



StrataBase

Geogrid Base Reinforcement

StrataBase® is a rigid biaxial geogrid consisting of extruded polypropylene, designed to provide structural reinforcement for paved and unpaved roads through superior stiffness, aperture stability and interlock capabilities.



For 30 years biaxial geogrids have been utilized in pavement construction and soil stabilization projects throughout the U.S. and worldwide. StrataBase stabilizes aggregate/soil through confinement and introduces tensile elements, thereby increasing bearing capacity and load support capacity. StrataBase applications include:

- **Base reinforcement for flexible pavements.**
- **Subgrade and foundation improvement: cost effective alternate to undercutting and backfilling.**
- **Parking areas for commercial and Industrial facilities.**
- **Haul road stabilization.**
- **Airport runways.**
- **Embankment construction over soft soils.**
- **Construction platforms on marshy soil.**
- **Caps for sludge, landfill and other low bearing materials.**

Lateral spreading of base course aggregate or subbase material is the most critical and common failure in pavement structures. StrataBase effectively reduces lateral spreading resulting in increased structural performance and pavement life.

Up to 50% reduction of aggregate thickness can be realized with the use of StrataBase.

A History of Quality Products

Strata products have been recognized for more than 20 years for their high quality and value. Strata continues that tradition with StrataBase through a strict Quality Control/Quality Assurance program.

- Both Strata and the manufacturing operations are ISO9001:2008 certified and maintain CE marking certification.
- Dedicated extrusion and process equipment produce all of the StrataBase products providing highly consistent product properties.
- Rigid plant quality control testing standards.
- Strata maintains a GAI-LAP certified testing laboratory where all StrataBase products are tested in accordance with a strict quality assurance program based on ASTM standards.
- In addition to Strata's in-house testing, third party verification testing is performed at GAI-LAP accredited LABS.

StrataBase meets or exceeds all current industry standard specifications for biaxial geogrid reinforcement. See StrataBase specifications and product comparison charts for additional information.

Property	Test Method	Units	SB11	SB12	SB30
Ultimate tensile strength, MD/CD	ASTM D 6637	lbs/ft	850/1300	1310/1970	2055/2055
Tensile strength @ 2 %, MD/CD	ASTM D 6637	lbs/ft	280/450	410/620	685/685
Tensile strength @ 5 %, MD/CD	ASTM D 6637	lbs/ft	580/920	810/1340	1370/1370
Junction Efficiency	GRI-GG2	%	93	93	93
Aperture Stability (Torsional Stiffness)	US COE Method	m-N/deg	0.32	0.65	0.75
Flexural Stiffness	ASTM D7748	mg-cm	250,000	750,000	2,500,000
Aperture Size (Nom.)	Caliber	inch x inch	1.0 x 1.4	1.0 x 1.4	1.4 x 1.3

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