

PRODUCT DATA



STRATA

GEOSYSTEMS (INDIA) PVT. LTD.

StrataGrid BX[®]

StrataGrid is a geogrid reinforcement for soil. These high performance geogrids are constructed of high molecular weight and high tenacity knitted polyester yarns with a proprietary coating. StrataGrid is engineered to be mechanically and chemically durable, in both the harsh construction installation phase and in the aggressive soil environments.

	Unit	SG1515	SG3030	SG4040	SG6060	SG100100
Mechanical Properties (ASTM D 6637)						
Tensile Strength	MD kN/m	15	30	40	60	100
	CD kN/m	15	30	40	60	100
Creep Reduction Factor (ASTM D 5262, ASTM D 6992)		1.58	1.58	1.58	1.58	1.58
Creep Limited Strength	kN/m	9.49	18.99	25.32	37.97	63.29
Partial Factor-Installation Damage						
In clay, silt or sand		1.05	1.05	1.05	1.05	1.05
In sandy gravel		1.10	1.10	1.10	1.10	1.10
In gravel		1.20	1.20	1.20	1.20	1.20
Partial Factor-Environmental Effects (GRI-GG7, GRI-GG8)						
Environment, $4 \leq \text{pH} \leq 8$		1.10	1.10	1.10	1.10	1.10
Long Term Design Strengths						
In clay, silt or sand	kN/m	8.21	16.44	21.92	32.87	54.79
In sandy gravel	kN/m	7.84	15.69	20.92	31.38	52.30
In gravel	kN/m	7.19	14.39	19.18	28.67	47.94
Geometric Properties						
Grid Aperture Sizes	MD	18	18	18	18	17
	CD	18	18	18	17	17
Standard Products						
Roll Width	m	1.8/3.6	1.8/3.6	1.8/3.6	1.8/3.6	1.8/3.6
Roll Length	m	100	100	100	100	100
Roll Weight	kg	34/68	46/92	56/112	70/140	135/270

Notes:

Maximum roll width is 3.6 m.

MD= machine direction/ CD= cross direction

Reported ultimate tensile strengths are average (typical) values obtained in accredited testing laboratories.

Roll weights are average values including shipping cores. Actual roll weights may vary.



Strata Systems, Inc. has refined the science of soil reinforcement worldwide. **Strata Geosystems (India) Private Limited** is a joint venture company in India with Strata Systems, Inc. US. Strata India is manufacturing the whole range of Strata soil reinforcement products in India and is offering the highest level of technical expertise, customer service, and overall value. Fully staffed with experienced engineers, Strata India is carrying forward the same ideals and principles of quality and technical capabilities that Strata has employed in the U.S. Strata's success is a direct result of the power of StrataGrid® performance and its ability to solve complex civil engineering problems. StrataGrid® interacts with the soil particles to create a permanent composite soil-geosynthetic structure. These high performance geogrids are constructed of super high tenacity polyester yarn utilizing a complex knitting process to provide superior engineering properties.

APPLICATIONS

- SEGMENTAL RETAINING WALLS
- PANEL FACED RETAINING WALLS
- REINFORCED STEEP SLOPES
- REINFORCED EMBANKMENTS OVER SOFT SOIL
- LANDSLIDE REPAIR
- REINFORCED FOUNDATIONS
- TRACK BED STABILISATION
- LANDFILL EMBANKMENT

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