

PRODUCT DATA



STRATA

GEOSYSTEMS (INDIA) PVT. LTD.

StrataGrid[®]

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	SG150	SG200	SG350	SG500	SG550	SG600	SG700	SG800	SG900	SG1000
--	------	-------	-------	-------	-------	-------	-------	-------	-------	-------	--------

Mechanical Properties (ASTM D 6637)

Tensile Strength	MD	kN/m	30	50	70	90	115	130	170	200	250	300
	CD	kN/m	30	30	30	30	30	30	30	30	30	30
Creep Reduction Factor (ASTM D 5262, ASTM D 6992)			1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
Creep Limited Strength		kN/m	18.99	31.64	44.30	56.96	72.78	82.28	107.59	126.58	158.22	189.87

Partial Factor-Installation Damage

In clay, silt or sand	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
In sandy gravel	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
In gravel	1.20	1.20	1.20	1.20	1.20	1.20	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	1.10	1.10	1.10	1.10	1.10	1.10
--	------	------	------	------	------	------	------	------	------	------	------

Long Term Design Strengths

In clay, silt or sand	kN/m	16.44	27.39	38.35	49.32	63.01	71.24	93.15	109.59	136.99	164.39
In sandy gravel	kN/m	15.69	26.15	36.61	47.07	60.15	68.00	88.92	104.61	130.76	156.92
In gravel	kN/m	14.39	23.97	33.56	43.15	55.14	62.33	81.51	95.89	119.86	143.84

Geometric Properties

Grid Aperture Sizes	MD	mm	24	17	20, 14	60	21, 8	60	50,11	61	60	50
	CD	mm	21	18	15	23	24	22	19	17	19	18

Standard Products

Roll Width	m	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82
Roll Length	m	100	100	100	100	100	100	100	100	100	100
Roll Weight	kg	42	60	68	75	98	100	115	125	136	164

Notes:

Maximum roll width is 3.9 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**

STRATA
GEOSYSTEMS (INDIA) PVT. LTD.