

SGB Grid



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

		Unit	SGB 20	SGB 30	SGB 40	SGB 50	SGB 60	SGB 70	SGB 80	SGB 100	SGB 150	
Material properties												
Tensile strength (ASTM D 6637 / EN ISO 10319 / IS 17371)	MD	kN/m min.	21 20	32 30	42 40	53 50	63 60	73 70	84 80	105 100	157 150	
	CMD	kN/m min.	21 20	32 30	42 40	53 50	63 60	73 70	84 80	105 100	157 150	
Elongation at nominal strength (ASTM D 6637 / EN ISO 10319 / IS 17371) (+/- 2%)	MD	%	10%	10%	10%	10%	10%	10%	10%	11%	11%	
	CMD	%	10%	10%	10%	10%	10%	10%	10%	11%	11%	
Tensile strength at (ASTM D 6637 / EN ISO 10319 / IS 17371) (min.)	2% strain	MD CMD	kN/m	3	4.5	6	7.5	9	10.5	12	15	22.5
	5% strain	MD CMD	kN/m	5	7.5	10	12.5	15	17.5	20	25	37.5
Physical properties												
Aperture size (+/- 5mm)	MD	mm	21	21	21	21	21	21	21	26	26	
	CMD		25	25	21	21	21	21	21	26	16	
Roll width		m	←————— 5.2 —————→									
Roll length		m	100	100	100	100	100	100	100	100	100	
Roll area		sqm	520	520	520	520	520	520	520	520	520	
Roll weight (+/- 10%)		kg	80	110	132	164	184	204	227	306	434	

Notes

- MD = machine direction / CMD = cross machine direction.
- The above properties might change at the time of the manufacturing, storing, handling or shipping. The above values are subject to change as per the discretion of the company
- Customised rolls with varying lengths or master rolls can be manufactured on order
- Wider roll widths upto 5.7m can be manufactured on order
- Tested in GAI-LAP and NABL accredited laboratories

